

List of All Chemicals

P Pueraria montana (Fabaceae)

Common name(s)

Kudsu; Kudzu

Subspecies

var. lobata

Speciesauth gov.usda.nal.duke.Authors : 510

How used

Food

*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

Chemical	Plant Part	Low PPM	High PPM	StdDev	*Reference
(+)-D-PINITOL	Root	--	--	*	
(+)-L-LACTIC-ACID	Root	--	--	*	
(+)-MAGNESIUM-LACTATE	Root	--	--	*	
(+)-PINITOL	Root	--	--	*	
(-)-GLYCINOL	Plant	--	--		Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Activities (3)

Fungicide ED50=50-
>100

Pesticide

Phytoalexin Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

(-)-LINALOOL	Fruit Essent. Oil	--	--	*
2,4-DIHYDROXYBENZOIC-ACID-METHYL-ESTER	Stem	--	0.3	*
2-METHOXY-4-VINYL-PHENOL	Leaf Essent. Oil	--	80600.0	*

Activities (2)

FLavor FEMA 0.2-10 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

2-METHOXY-5-VINYL-PHENOL	Leaf Essent. Oil	--	18300.0	*
3'-HYDROXY-4'-O-BETA-D-GLUCOSYLPUEARIN	Root	--	--	*
3'-HYDROXYPUERARIN	Root	--	--	*
3'-METHOXYDAIDZEIN	Root	--	--	*
3'-METHOXYDAIDZIN	Root	--	25.0	*
3'-METHYLPUERARIN	Root	--	--	*
3-(2-O-GLUCOPYRANOSYL-4-METHOXY-PHENYL)-4-(4-HYDROXY-BENZYL)-BUT-2-EN-4-OLIDE	Root	--	--	*
3-HYDROXY-BETA-DAMASCONE	Leaf Essent. Oil	--	19400.0	*

<i>3-HYDROXY-BETA-IONONE</i>	Lear Essent. Oil	--	500.0	*
<i>3-O-(RHAMNO PYRANOSYL-PENTOSYL(1,2)GLUCURONOPYRANOSYL)-SOPHORADIOL</i>	Flower	--	54.0	*
<i>4',7-DIHYDROXYISOFLAVONE</i>	Plant	--	--	J.S. Glasby Dict.Pls Containing 2ndary Metabolite. 1991.
<i>4'-METHOXYPUERARIN</i>	Root	--	--	*
<i>5-METHYLHYDANTOIN</i>	Root	--	--	*
<i>6"-O-D-XYLOSYLPUERATIN</i>	Root	--	--	*
<i>6"-O-MALONYL-GENISTEIN-8-C-GLUCOSIDE</i>	Tissue Culture	--	--	*
<i>6"-O-MALONYLDAIDZIN</i>	Stem	--	103.0	*
<i>6"-O-MALONYLDAIDZIN</i>	Tissue Culture	--	470.0	*
<i>6"-O-MALONYLDAIDZIN</i>	Root	--	8550.0	*
<i>6"-O-MALONYLGENISTIN</i>	Stem	--	27.0	*
<i>6"-O-MALONYLGENISTIN</i>	Root	--	630.0	*
<i>6"-O-MALONYLGENISTIN</i>	Tissue Culture	--	194.0	*
<i>6"-O-MALONYLPUERARIN</i>	Root	--	1625.0	*
<i>6"-O-MALONYLPUERARIN</i>	Tissue Culture	--	40.0	*
<i>6,7-DIMETHOXYCOUMARIN</i>	Root	--	--	*
Activities (1)				
Analgesic				
<i>6-GERANYL-7,4'-DIHYDROXYCOUMESTAN</i>	Root	--	--	*
<i>8-C-GLUCOSYLGENTISTIN</i>	Root	--	--	*
<i>8-PRENYLDAIDZEIN</i>	Stem	--	--	*
<i>8-PRENYLDIADZEIN</i>	Stem	--	--	*
<i>8-PRENYLGENISTIN</i>	Stem	--	--	*
<i>ACETYL-CHOLINE</i>	Root	--	--	*
Activities (19)				
Allergenic				
Antiamblyopic				
Antidiuretic				
Antiileus				
Antitachycardic				
Cardiodepressant			Martindale's 29th	
Cerebrostimulant				
Histaminic				
Hypotensive				
Miotic			Martindale's 29th	
Myocontractant 2 uM				
Myopic				
Myotonic			Martindale's 29th	
Neurotransmitter				
Parasympathomimetic 0.002 mg/kg ivn rat			Borchard, R. E., Barnes, C. D., and Eltherton, L. G. 1991. Drug Dosage in Laboratory Animals: A Handbook. (3rd Ed.) The Telford Press, Inc., P. O. Box 287, Caldwell NJ 07006.	
Peristaltic				
Sialogogue				
Spasmogenic Antidote=600 ug atropine sulfate ivn ims scu hmnn				
Vasodilator				
<i>ALLANTOIN</i>	Root	--	--	*

Antidandruff	A.L.L. Hunting. Encyclopedia of Shampoo Ingredients. Micelle Press, Cranford NJ. 467 pp.
Antiinflammatory	
Antioxidant	
Antipeptic 30-130 mg/man/day	25 Dispensatory
Antipsoriac 2%	Martindale's 28th
Antiradicular	
Antiulcer	
Immunostimulant	
Keratolytic	Martindale's 28th
Sunscreen 0.10%	Jim Duke's personal files.
Suppurative	
Vulnerary	

APIGENIN	Root	--	--	*
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Activities (101)

11B-HSD-Inhibitor	
AntiADD	
AntiHIV IC72=200 ug/ml	
AntiHIV IC50=143 ug/ml	
Antiaflatoxin IC50=9.52 uM	
Antiaflatoxin IC50=2.57 ppm	
Antiaggregant	
Antiaging	
Antiallergic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiangiogenic 4 uM	
Antiarrhythmic	
Antibacterial	Recio, M. C., Rios, J. L., and Villar, A., A review of some antimicrobial compounds isolated from medicinal plants reported in the literature 1978-1988, <i>Phytotherapy Research</i> , 3(4), 1989, 117-125.
Anticancer (Lung)	
Anticomplementary	
Antidermatitic	Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.
Antiestrogenic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiherpetic 20-54 ug/ml	
Antihistaminic IC50=10-35 uM	
Antiinflammatory #NAME?	
Antiinflammatory IC~65=1,000 uM	
Antileukemic 20-50 uM	
Antimelanomic 1-50 uM	
Antimetastatic 1-50 uM	
Antimutagenic ID50=10-40 nM	<i>Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention</i> . Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507. ACS, Washington 402 pp.
Antimutagenic ID50=0.55 ug/ml	
Antioxidant 1.5 x Vit. E	
Antioxidant IC28.5=62.5 ug/ml	
Antiperistaltic	
Antiproliferant 1-50 uM	
Antiproliferant IC50=155 uM	
Antispasmodic EC50=1-5 uM	
Antistress 10 mg/kg	
Antithyroid	Jim Duke's personal files.
Antitumor 1-50 uM	
Antitumor (Breast) 1-50 uM	
Antitumor (Lung)	
Antitumor (Skin)	
Antiviral 20-54 ug/ml	
Anxiolytic 10 mg/kg	
Apoptotic 12-60 uM	
Aromatase-Inhibitor IC65=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Beta-Glucuronidase-Inhibitor IC50=~40 uM	
CNS-Depressant	
COX-1-Inhibitor	

COX-2-Inhibitor IC>65=1,000 uM	
COX-2-Inhibitor <40 uM	
COX-2-Inhibitor IC50=<15 uM	
Calcium-Antagonist?	Biochimica & Biophysica Acta, 1115: 69, 1991.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Choleretic	
Cyclooxygenase-Inhibitor	
Cytochrome-P450-1A1-Inhibitor	
Cytotoxic IC88=10 ug/ml	Planta Medica, 57: A113, 1991.
Cytotoxic 1-50 uM	
Cytotoxic IC50=9.5 uM	
DNA-Protective	
Deiodinase-Inhibitor	Jim Duke's personal files.
Differentiator MIC=30 uM	
Differentiator IC40=40 uM	
Diuretic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Estrogenic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
Estrogenic 16% genistein	
Estrogenic EC50=1 uM	
HIF-1alpha-Inhibitor	
Hyaluronidase-Inhibitor IC50+=50-250 uM	
Hypotensive	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
ICAM-1-Inhibitor	
IKK-Inhibitor	
Inotropic	
Interleukin-6-Inhibitor	
MAO-Inhibitor	
MAPK-Inhibitor	
Musculotropic	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Mutagenic	
Myorelaxant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
NADH-Oxidase-Inhibitor	
NF-kB-Inhibitor	
NO-Synthase-Inhibitor 5-50 uM	
Nodulation-Signal	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ornithine-Decarboxylase-Inhibitor	
P21-Inducer 10-70 uM	
PKC-Inhibitor IC50=10 uM	
PTK-Inhibitor 10-100 uM	
Pesticide	
Polyamine-Synthesis-Inhibitor	
Progestational	
Protein-Kinase-C-Inhibitor IC50=10-40 uM	
Quinone-Reductase-Inducer 20 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. Cancer Lett., 120 (2): 213-216.
Radioprotective	
Sedative 30-100 mg/kg	
Sunscreen	
TNF-alpha-Inhibitor IC50=3.27 uM	
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. Toxicol Ind Health, 14: 223-237.
Topoisomerase-II-Inhibitor 50 ug/ml	Azuma, Y., Onishi, Y., Sato, Y., Kizaki, H. 1995. Effects of Protein Tyrosine Kinase Inhibitors With Different Modes of Action on Topoisomerase Activity and Death of IL-2-Dependent CTLL-2-Cells. J Biochemistry, 118: 312-318.
Topoisomerase-II-Inhibitor IC28=18 uM	
Topoisomerase-II-Inhibitor IC45=180 uM	
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor IC50=2-7 uM	
Vasodilator	
Xanthine-Oxidase-Inhibitor	

ARACHIDIC-ACID	Root	--	--	*	
ASH	Root	14000.0	44600.0	-0.66	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
BAICALEIN	Root	--	--	*	
Activities (50)					
12-Lipoxygenase-Inhibitor					
17-beta-hydroxysteroid dehydrogenase-Inhibitor 9.3 uM					
5-Lipoxygenase-Inhibitor IC50=0.1-5 uM					
Aldose-Reductase-Inhibitor IC50=0.98 ppm					Kohda, H., Tanaka, S., Yamaoka, Y., Yahara, S., Nohara, T., Tanimoto, T., Tanaka, A. 1989. Studies on Lens-Aldose-Reductase Inhibitor in Medicinal Plants.II Active Constituents of Monochasma savatieri FRANCH. et MAXIM. Chem. Pharm. Bull. 37(11):3153-3154
Aldose-Reductase-Inhibitor IC62=10 uM					Shimizu, M., Ito, T., Terashima, S., Hayashi, T., Arisawa, M., Morita, N., Kurokawa, S., Ito, K., and Hashimoto, Y. 1984. Inhibition of Lens Aldose Reductase by Flavonoids. Phytochemistry, 23: 1885-1888.
Aldose-Reductase-Inhibitor IC50=0.98 rbt					Kohda, H., Tanaka, S., Yamaoka, Y., Yahara, S., Nohara, T., Tanimoto, T., Tanaka, A. 1989. Studies on Lens-Aldose-Reductase Inhibitor in Medicinal Plants.II Active Constituents of Monochasma savatieri FRANCH. et MAXIM. Chem. Pharm. Bull. 37(11):3153-3154
AntiHIV					
Antiacne					
Antiaggregant ED50=120-200 mg/kg					Butenko, I.G., Gladchenko, S.V., and Galushko, S.V. Anti-inflammatory properties and inhibition of leukotriene C4 biosynthesis in vitro by flavonoid baicalein from <i>Scutellaria baicalensis</i> georgy roots. Agents Actions 39: C49, 1993.
Antiallergic					Williamson, E. M. and Evans, F. J. Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Antiarthritic IC28=20 mg/kg scu rat					
Antiasthmatic					
Antiatherosclerotic IC50=3.5-8.6 uM					
Antibacterial					Foster, S. and Yue, C-G. 1992. Herbal Emissaries-Bringing Chinese Herbs to the West. Healing Arts Press, Rochester VT. 356 pp.
Anticolic 20 mg/kg					
Antidermatitic					
Antidote (Strychnine) 10 mg mus					Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antiedemic IC28=20 mg/kg scu rat					
Antiflu					Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antigenotoxic IC50=22-34 uM					
Antihepatomic					
Antihistaminic					
Antiinflammatory IC28=20 mg/kg scu rat					
Antiinflammatory IC50=0.1-5 uM					
Antileukemic IC50=0.26 ug/ml					Life Sciences 55: 1061.
Antileukemic 2 ug/ml					Economic & Medicinal Plant Research, 5: 225.
Antimutagenic					
Antiproliferative					Huang, H-C., Wang, H-R., and Hsieh, L-M. 1993. Antiproliferative effect of baicalein, a flavonoid from a Chinese herb, on vascular smooth muscle cell. European J. of Pharmacology 251: 91-93, 1994.
Antipyretic					Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antiretroviral					
Antithrombotic IC50=3.5-8.6 uM					
Antithrombotic IC50=3.7 uM					
Antitoxin (Strychnine) 10 mg mus					Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antiviral					Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Apoptotic					
Astringent					Merck 11th Edition
COX-1-Inhibitor 100 ug/ml					Fukutake, M., Yokota, S., Kawamura, H., Izuka, A., Amagaya, S., Fukuda, K., Komatsu, Y. 1998. Inhibitory effect of <i>Coptidis rhizoma</i> adn <i>Scutellariae radix</i> on azoxymethane-induced aberrant crypt foci formation in rat colon. Biol Pharm Bull, 21(8): 814-817
COX-2-Inhibitor 100 ug/ml					
Choleretic					Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Cyclooxygenase-Inhibitor					
Diuretic					
Fungicide					
HIV-RT-Inhibitor 2 ug/ml					Economic & Medicinal Plant Research, 5: 225.
HIV-RT-Inhibitor IC50=<1 ug/ml					Nakane, H., Fukushima, M., and Ono*, K. Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives. Journal of Natural Products, 53(5): 1234-1240, 1990.
Hypocholesterolemic					
Neuroprotective 10 uM					
Pesticide					

200 ug/ml

Carcinoma Cell Lines. Jap J Cancer Res, 67: 170-177.

Triglycerolytic

Xanthine-Oxidase-Inhibitor

IC50=3 uM

BENZOIC-ACID

Fruit	--	--	*
Essent.			
Oil			

Activities (20)

Allergenic	Martindale's 28th
Anesthetic	
Antibacterial 33-1,250 ppm	
Antibacterial MBC=800 ug/ml	
Antitotic	Martindale's 28th
Antipyretic	
Antisalmonella MIC=800 ug/ml	
Antiseptic 800 ug/ml	
Antiyeast MFC=1,600 ug/ml	
Choleretic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Expectorant	
FLavor FEMA 250	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide MFC=1,600 ug/ml	
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Pesticide	
Phytoalexin	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Tyrosinase-Inhibitor ID50=710 uM	
Tyrosinase-Inhibitor ID50=640 uM	
Uricosuric	
Vulnerary	

BENZYL-ALCOHOL

Fruit	--	--	*
Essent.			
Oil			

Activities (9)

Allergenic	Martindale's 29th
Anesthetic	Martindale's 28th
Antiodontalgic	Martindale's 28th
Antipruritic	
Antiseptic	Martindale's 29th
FLavor Fema 200-1,200	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Fungicide	
Pesticide	
Sedative	Jim Duke's personal files.

BETA-SITOSTEROL

Stem	--	--	*
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Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadrenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiinflammatory	

Antilymphomic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostatadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Antipyretic	
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in Artemisia annua. Plant Science, 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of Melodorum fruticosum. Phytochemistry, 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Ubiquiot	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

BETA-SITOSTEROL

Root -- -- *

Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadrenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from Vaccinium myrtillus (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomic	
Antimutagenic 250 ug/ml	
Antiophidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostatadenomic	Merck 11th Edition
Antiprostatic 10-20 mg 3 x/day/orl man	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Antipyretic	

Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . Plant Science, 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . Phytochemistry, 29(5): 1667-1670, 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	
Estrogenic	
Febrifuge	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. Journal of Ethnopharmacology, 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Ubiquit	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

BETA-SITOSTEROL

Flower -- -- *

Activities (47)

Androgenic	
Angiogenic	
Anorexic	Martindale's 28th
Antiadrenomic	Merck 11th Edition
Antiandrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antibacterial	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Anticancer (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Anticancer (Cervix)	
Anticancer (Lung)	
Antiedemic IC54=320 mg/kg orl	
Antiestrogenic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antifertility	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antigonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antihyperlipoproteinaemic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antiinflammatory	
Antileukemic	
Antilymphomeric	
Antimutagenic 250 ug/ml	
Antiphidic 2.3 mg mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC44=10 uM	
Antiprogestational	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. Journal of Ethnopharmacology, 28: 221-234, 1990.
Antiprostaglandin 30 mg/day/12 wks	
Antiprostatademonic	Merck 11th Edition
Antiprostatitic 10-20 mg 3 x/day/orl man	
Antipyretic	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Antitumor (Breast)	Madhavi, D. L., Bomser, J., Smith, M., Singletary, K. 1998. Isolation of Bioactive Constituents from <i>Vaccinium myrtillus</i> (Bilberry) Fruits and Cell Cultures. Plant Sci., 131(1): 95-103.
Antitumor (Cervix)	
Antitumor (Lung)	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . Plant Science, 75: 161-165, 1991.
Apoptotic	
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, C., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . Phytochemistry, 29(5): 1667-1670, 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	Recently became Internat. J. Crude Drug Res. 28(1,2,3,4):1990, page 155.
Caspase-8-Inducer	

Febrifuge	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Gonadotrophic	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Hepatoprotective	
Hypocholesterolemic 2-6 g/man/day/orl	Martindale's 30th
Hypocholesterolemic 9-3,330 mg/man/day/orl	Martindale's 28th
Hypoglycemic	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Hypolipidemic 2-6 g/day	
Pesticide	
Spermicide	Malini, T. and Vanithakumari, G. 1989. Rat Toxicity Studies With B-Sitosterol. <i>Journal of Ethnopharmacology</i> , 28: 221-234, 1990.
Ubiquiot	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, Londón. 791 pp.
Ulcerogenic 500 mg/kg ipr rat	

BETA-SITOSTEROL-BETA-D-GLUCOSIDE Root -- -- *

Activities (4)

Antileukemic

Antispasmodic =ICMR(Indian Council of Medical Research),1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 20 mg/kg pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp

Antitumor

Hypoglycemic Economic & Medicinal Plant Research, 6: 158.

BIOCHANIN-A Flower -- -- *

Activities (32)

17-beta-hydroxysteroid dehydrogenase-Inhibitor 10.8 uM

5-Alpha-Reductase-Inhibitor IC50=35 uM

5-Alpha-Reductase-Inhibitor IC>80=100 uM

Alpha-Reductase-Inhibitor IC50=~35 uM

Antialcoholic

Anticarcinogenic Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

Anticephalagic

Antimutagenic Economic & Medicinal Plant Research, 6: 235.

Antiproliferant

Antiprostatadenomic 8-27 ug/ml Medline (post 1990 searches filed in my computer)

Antiprostatic IC50=~35 uM

Antitumor (GI)

Antitumor (Lung)

Apoptotic >150 uM

Aromatase-Inhibitor IC45=1 uM/l Journal of Medicinal Food 2: 235.1999.

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Chemopreventive Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

ER-Beta-Binder

Estrogen-Agonist 0.1-1 uM/l Journal of Medicinal Food 2: 139.1999.

Estrogenic EC50=0.1-25 uM/l

Estrogenic 0.1 uM

Flatulent

Fungicide ED50=250-350 ug/ml Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, *Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology*, v. 4, Oryx Press, Phoenix, 1989, 267pp.

Fungistat IC50=200 uM

Herbicide-Safener Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

Hypocholesterolemic

Hypolipidemic

Pesticide

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

Topoisomerase-II-Inhibitor 50 ug/ml Azuma, Y., Onishi, Y., Sato, Y., Kizaki, H. 1995. Effects of Protein Tyrosine Kinase Inhibitors With Different Modes of Action on Topoisomerase Activity and Death of IL-2-Dependent CTLL-2-Cells. *J Biochemistry*, 118: 312-318.

Uterotrophic EC50=0.1-25 uM/l Journal of Medicinal Food 2: 227.1999.

VAM-Simulant Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

BIOCHANIN-A Root -- -- *

Activities (32)

5-Alpha-Reductase-Inhibitor 10.0 uM

5-Alpha-Reductase-Inhibitor
IC₅₀=35 uM

5-Alpha-Reductase-Inhibitor
IC>80=100 uM

Alpha-Reductase-Inhibitor
IC₅₀=~35 uM

Antialcoholic

Anticarcinogenic

Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

Anticephalagic

Antimutagenic Economic & Medicinal Plant Research, 6: 235.

Antiproliferant

Antiprostatadenomic 8-27 ug/ml Medline (post 1990 searches filed in my computer)

Antiprostatic IC₅₀=~35 uM

Antitumor (GI)

Antitumor (Lung)

Apoptotic >150 uM

Aromatase-Inhibitor IC₄₅=1 uM/l Journal of Medicinal Food 2: 235.1999.

Cancer-Preventive

Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Chemopreventive

Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. *Herbal Medicine - A Guide for Health-care Professionals*. The Pharmaceutical Press, London. 296pp.

ER-Beta-Binder

Estrogen-Agonist 0.1-1 uM/l Journal of Medicinal Food 2: 139.1999.

Estrogenic EC₅₀=0.1-25 uM/l

Estrogenic 0.1 uM

Flatulent

Fungicide ED₅₀=250-350 ug/ml Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, *Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology*, v. 4, Oryx Press, Phoenix, 1989, 267pp.

Fungistat IC₅₀=200 uM

Herbicide-Safener Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

Hypocholesterolemic

Hypolipidemic

Pesticide

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

Topoisomerase-II-Inhibitor 50 ug/ml Azuma, Y., Onishi, Y., Sato, Y., Kizaki, H. 1995. Effects of Protein Tyrosine Kinase Inhibitors With Different Modes of Action on Topoisomerase Activity and Death of IL-2-Dependent CTLL-2-Cells. *J Biochemistry*, 118: 312-318.

Uterotrophic EC₅₀=0.1-25 uM/l Journal of Medicinal Food 2: 227.1999.

VAM-Simulant

Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

BIOCHANIN-A-7-O-GLUCOSIDE

BIOCHANIN-A-7-O-GLUCOSIDE	Flower	--	--	*
CALCIUM	Shoot	1600.0	1700.0	-0.95

CALCIUM

ANON. 1948-1976. *The Wealth of India raw materials*. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities (28)

AntiPMS 1 g/day

Antiallergic 500 mg/day

Antianxiety

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Antiarrhythmic 500-1,500 mg

Antiarthritic 1,000 mg/day

Antiatherosclerotic 500 mg/day

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Anticlimacteric 1,000-1,500 mg/day

Antidepressant

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Antidote (Aluminum)

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Antidote (Lead)

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Antihyperkinetic

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Antihypertensive

Antiinsomniac

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Antimenopausal 1,000-1,500 mg/day

Antiobesity

Antosteoporotic 500-2,000 mg/day

Antiperiodontitic 750 mg/day

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Antirheumatic 1,000 mg/day

Antistress 500-1,500 mg/day

Antitic

Davies, S., and Stewart, A. 1990. *Nutritional Medicine*. Avon Books, New York. 509pp.

Anxiolytic 500-1,500 mg/day

Calcium-Channel-Blocker

Diuretic

Hypocholesterolemic 500 mg/day

Werbach, M. 1993. *Healing with Food*. Harper Collins, New York, 443 pp.

Laxative 1,000-1,200 mg
Tranquilizer 500-1,500 mg/day
Vasodilator

CALCIUM	Root	150.0	475.0	-0.76	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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Activities (28)

AntiPMS 1 g/day					
Antiallergic 500 mg/day					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antianxiety					
Antiarrhythmic 500-1,500 mg					
Antiarthritic 1,000 mg/day					Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antiatherosclerotic 500 mg/day					
Anticlimacteric 1,000-1,500 mg/day					
Antidepressant					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidote (Aluminum)					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidote (Lead)					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihyperkinetic					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihypertensive					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiinsomniac					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antimenopausal 1,000-1,500 mg/day					
Antiobesity					
Antiosteoporotic 500-2,000 mg/day					
Antiperiodontitic 750 mg/day					Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Antirheumatic 1,000 mg/day					
Antistress 500-1,500 mg/day					
Antitic					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Anxiolytic 500-1,500 mg/day					
Calcium-Channel-Blocker					
Diuretic					
Hypocholesterolemic 500 mg/day					Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Hypotensive 1 g/day					Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.
Laxative 1,000-1,200 mg					
Tranquilizer 500-1,500 mg/day					
Vasodilator					

CANTONIENSISTRIOL

Root -- -- *

CAPROIC-ACID

Fruit
Essent.
Oil -- -- *

Activities (1)

Irritant

CARBOHYDRATES	Root	271000.0	885350.0	0.71	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
CAROTENE	Shoot	--	44.0		ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
CHOLINE	Root	--	--	*	

Activities (20)

Antialzheimeran 5-16 g/man/day					
Antichoreic					Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Anticirrhotic 6,000 mg/man/day					
Anticystinuric					
Antidementia					
Antidiabetic					
Antidyskinetic 150-200 mg/kg/man/day					Martindale's 28th
Antihomocysteine					
Antimanic 15-30 g/man/day/orl					Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antinociceptive					
Antisteatotic					
Cardiodepressant					
Cerebrotonic					

Hepatoprotective

Hypotensive

Ileorelaxant

Lipotropic

Memorigenic

Parasympathomimetic (1/1,000th acetylcholine)

Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.

CIS-4-(BUT-CIS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE

Leaf
Essent.
Oil

--

290.0

*

CIS-4-(BUT-TRANS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE

Leaf
Essent.
Oil

--

1900.0

*

COUMARINS

Root

--

--

Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.

COUMESTROL

Root

--

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*

Activities (13)

Antilipedemic ED50=0.4 mg/kg

Antimicrobial

Antiosteoporotic 10 mg/kg

Estrogenic

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Fungicide EC50=>100

Fungicide IC3-4=100 uM

Hypocholesterolemic ED50=0.4 mg/kg

Nematicide ED50=10-15 ug/ml

Nematostat 5-25 ug/ml

Peroxidase-Inhibitor

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

Phytoalexin

Uterotrophic ED50=0.4 mg/kg

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

COUMESTROL

Stem

--

76.0

*

Activities (13)

Antilipedemic ED50=0.4 mg/kg

Antimicrobial

Antiosteoporotic 10 mg/kg

Estrogenic

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Fungicide EC50=>100

Fungicide IC3-4=100 uM

Hypocholesterolemic ED50=0.4 mg/kg

Nigmaticide ED50=10-15 ug/ml

Nematostat 5-25 ug/ml

Peroxidase-Inhibitor

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Pesticide

Phytoalexin

Uterotrophic ED50=0.4 mg/kg

Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.

DAIDZEIN

Plant

--

--

*

Activities (32)

Antialcoholic

Antiarrhythmic

Anticancer

Anticephalagic

Antidiipsomanic 150 mg/kg/day

Antiestrogenic

Antihemolytic

Antiinflammatory

Antileukemic IC50=>10 ug/ml Life Sciences 55: 1061.

Antimicrobial	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiosteoporotic	
Antioxidant 1/4 quercetin	
Antiproliferative	
Antiradicular 1/4 quercetin	
Antispasmodic	
Antitumor-Promoter	
Antiviral	
Aromatase-Inhibitor IC28=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Cancer-Preventive	
Coronary-Dilator	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Fungicide >100	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Topoisomerase-I-Inhibitor	Santi, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor IC50=3.9 mM	Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366.
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor	

DAIDZEIN

Rhizome -- -- *

Activities (32)

Antialcoholic	
Antiarrhythmic	
Anticancer	
Anticephalic	
Antidipsomanic 150 mg/kg/day	
Antiesticogenic	
Antihemolytic	
Antiinflammatory	
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antimelanomic	
Antimicrobial	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiosteoporotic	
Antioxidant 1/4 quercetin	
Antiproliferative	
Antiradicular 1/4 quercetin	
Antispasmodic	
Antitumor-Promoter	
Antiviral	
Aromatase-Inhibitor IC28=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Cancer-Preventive	
Coronary-Dilator	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Fungicide >100	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Topoisomerase-I-Inhibitor	Santi, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor IC50=3.9 mM	Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366.
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.

DAIDZEIN

Root -- 1800.0 1.0 *

Activities (32)

Antialcoholic	
Antiarrhythmic	
Anticancer	
Anticephalagic	
Antidipsomanic 150 mg/kg/day	
Antiestrogenic	
Antihemolytic	
Antiinflammatory	
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antimelanomic	
Antimicrobial	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiosteoporotic	
Antioxidant 1/4 quercetin	
Antiproliferative	
Antiradicular 1/4 quercetin	
Antispasmodic	
Antitumor-Promoter	
Antiviral	
Aromatase-Inhibitor IC28=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Cancer-Preventive	
Coronary-Dilator	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Fungicide >100	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor IC50=3.9 mM	Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366.
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor	

DAIDZEIN

Flower -- -- *

Activities (32)

Antialcoholic	
Antiarrhythmic	
Anticancer	
Anticephalagic	
Antidipsomanic 150 mg/kg/day	
Antiestrogenic	
Antihemolytic	
Antiinflammatory	
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antimelanomic	
Antimicrobial	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiosteoporotic	
Antioxidant 1/4 quercetin	
Antiproliferative	
Antiradicular 1/4 quercetin	
Antispasmodic	
Antitumor-Promoter	
Antiviral	
Aromatase-Inhibitor	Journal of Medicinal Food 2: 235.1999.

Cancer-Preventive	
Coronary-Dilator	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Fungicide >100	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor IC50=3.9 mM	Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366.
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor	

DAIDZEIN	Leaf	--	949.8	1.0	Kaufman,PB,Duke,JA,Brielmann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. <i>Journal of Alternative & Complementary Medicine</i> 3(1):7-12
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Activities (32)

Antialcoholic	
Antiarrhythmic	
Anticancer	
Anticephalagic	
Antidiplomanic 150 mg/kg/day	
Antiestrogenic	
Antihemolytic	
Antiinflammatory	
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antimelanomic	
Antimicrobial	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiosteoporotic	
Antioxidant 1/4 quercetin	
Antiproliferative	
Antiradicular 1/4 quercetin	
Antispasmodic	
Antitumor-Promoter	
Antiviral	
Aromatase-Inhibitor IC28=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Cancer-Preventive	
Coronary-Dilator	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Fungicide >100	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Topoisomerase-I-Inhibitor	Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor IC50=3.9 mM	Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366.
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor	

DAIDZEIN	Stem	--	510.0	1.0	*
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Activities (32)

Antialcoholic	
Antiarrhythmic	
Anticancer	
Anticephalagic	

mg/kg/day	
Antiestrogenic	
Antihemolytic	
Antiinflammatory	
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antimelanomic	
Antimicrobial	
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.
Antiosteoporotic	
Antioxidant 1/4 quercetin	
Antiproliferative	
Antiradicular 1/4 quercetin	
Antispasmodic	
Antitumor-Promoter	
Antiviral	
Aromatase-Inhibitor IC28=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Cancer-Preventive	
Coronary-Dilator	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Fungicide >100	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Quinone-Reductase-Inducer	Yannai, S., Day, A. J., Williamson, G., Rhodes, M. J. C. 1998. Characterization of Flavonoids as Monofunctional or Bifunctional Inducers of Quinone Reductase in Murine Hepatoma Cell Lines. <i>Food Chem Toxicol</i> , 36(8): 623-630.
Topoisomerase-I-Inhibitor	Santi, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. <i>Toxicol Ind Health</i> , 14: 223-237.
Topoisomerase-II-Inhibitor IC50=3.9 mM	Sun, N. J., Woo, S. H., Cassady, J. M., Snapka, R. M. 1998. DNA Polymerase and Topoisomerase II Inhibitors From <i>Psoralea corylifolia</i> . <i>J Natural Products</i> , 61: 362-366.
Uterotrophic EC50=0.1-25 uM/l	Journal of Medicinal Food 2: 227.1999.
VEGF-Inhibitor	

DAIDZEIN-4',7'-DI-O-BETA-D-GLUSIDE	Root	--	--	*
DAIDZEIN-4,7-DIGLUCOSIDE	Plant	--	--	*
DAIDZEIN-4,7-DIGLUCOSIDE	Root	--	--	*
DAIDZEIN-7-O-METHYL-ETHER	Root	--	--	*
DAIDZEIN-8-C-APIOSYL-(1,6)-GLUCOSIDE	Root	--	100.0	*
DAIDZIN	Root	5.3	6520.0	*

Activities (10)

Antialcoholic	
Antidipsomanic 150 mg/kg/day	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Antioxidant	
Antispasmodic	
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic	
Fungicide	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	
Pesticide	

DAIDZIN	Plant	--	--	*
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Activities (10)

Antialcoholic	
Antidipsomanic 150 mg/kg/day	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Antioxidant	
Antispasmodic	
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic	
Fungicide	
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.
Lipase-Inhibitor	

DAIDZIN	Stem	--	35.0	*
Activities (10)				
Antialcoholic				
Antidiopsomanic 150 mg/kg/day				
Antioxidant	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.			
Antispasmodic				
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
Estrogenic				
Fungicide				
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.			
Lipase-Inhibitor				
Pesticide				
DAIDZIN	Tissue Culture	--	119.0	*
Activities (10)				
Antialcoholic				
Antidiopsomanic 150 mg/kg/day				
Antioxidant	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.			
Antispasmodic				
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
Estrogenic				
Fungicide				
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.			
Lipase-Inhibitor				
Pesticide				
DAIDZIN	Leaf	--	400.0	*
Activities (10)				
Antialcoholic				
Antidiopsomanic 150 mg/kg/day				
Antioxidant	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.			
Antispasmodic				
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
Estrogenic				
Fungicide				
Hypotensive ivn	Foster, S. and Yue, C-G. 1992. <i>Herbal Emissaries-Bringing Chinese Herbs to the West</i> . Healing Arts Press, Rochester VT. 356 pp.			
Lipase-Inhibitor				
Pesticide				
DAMASCENONE	Leaf Essent. Oil	--	19700.0	-1.0 *
DAUCOSTEROL	Flower	--	--	*
Activities (5)				
Aldose-Reductase-Inhibitor 0.1 mM/l rat (weak activity, 31.9% inhibition)	Fujita, T., Ohira, K., Miyatake, K., Nakano, Y., Nakayama, M. 1995. Inhibitory Effect of Perilloides A and C, Related Monoterpene Glucosides on Aldose Reductase and Their Structure-Activity Relationships. <i>Chem Pharm Bull</i> , 43(6): 920-926.			
Antileukemic				
Antispasmodic 20 mg/kg	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp			
Antitumor				
Hypoglycemic	Economic & Medicinal Plant Research, 6: 158.			
DAUCOSTEROL	Root	--	--	*
Activities (5)				
Aldose-Reductase-Inhibitor 0.1 mM/l rat (weak activity, 31.9% inhibition)	Fujita, T., Ohira, K., Miyatake, K., Nakano, Y., Nakayama, M. 1995. Inhibitory Effect of Perilloides A and C, Related Monoterpene Glucosides on Aldose Reductase and Their Structure-Activity Relationships. <i>Chem Pharm Bull</i> , 43(6): 920-926.			
Antileukemic				
Antispasmodic 20 mg/kg	=ICMR(Indian Council of Medical Research).1976.Medicinal Plants of India.Vol.1.Indian Council of Med. Res.Cambridge Printing Works, New Delhi.487 pp;ICMR.1987.Medicinal Plants of India.Vol.2.Indian Council of Med. Res.Cambr. Printing Works,New Delhi.600pp			
Antitumor				
Hypoglycemic	Economic & Medicinal Plant Research, 6: 158.			

DELPHINIDIN-3-O-GLUCOSIDE	Flower	--	--	--
DELPHINIDIN-3-O-BETA-D-GLUCOSIDE	Flower	--	--	*
Activities (1)				
Antioxidant				
DI-O-METHYLD AIDZEIN	Root	--	--	*
DIADZIN	Stem	--	5.4	*
EO	Leaf Essent. Oil	--	120.0	*
ETHYL-ACETATE	Fruit Essent. Oil	--	--	*
Activities (6)				
Antispasmodic				
CNS-Depressant	Martindale's 29th			
Carminative				
FLavor FEMA 20-1,500	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Respirotoxic >400 ppm	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Stimulant				
EUGENOL	Fruit Essent. Oil	--	--	*
Activities (76)				
Acaricide LD50=5.47 ug/sq cm cf DEET at 37.59 ug/sq cm				
Allergenic				
Analgesic	Merck 11th Edition			
Anesthetic 200-400	Phytotherapy Research, 4: 93.			
AntiTNF				
Antiaggregant IC50=0.3 uM	Phytotherapy Research, 4: 93.			
Antiarachidonate				
Antibacterial 500 ppm	Valnet, J. 1982. The Practice of Aromatherapy. Translated from the 1980 French Edition by Robin Campbell and Libby Houston. Destiny Books, New York. 279 pp.			
Antibacterial MBC=400 ug/ml				
Anticonvulsant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, Londón. 791 pp.			
Antiedemic 100	Phytotherapy Research, 4: 95.			
Antiestrogenic				
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.			
Antigenotoxic 50-500 mg/kg orl mus				
Antiherpetic IC50=16.2-25.6 ug/ml				
Antiinflammatory (11 uM) IC~97=1,000 uM				
Antikeratotic IC50=16.2-25.6 ug/ml				
Antimitotic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antimutagenic	Economic & Medicinal Plant Research, 6: 235.			
Antinitrosating				
Antioxidant IC65=30 ppm				
Antioxidant 10 uM				
Antiprostaglandin 11 uM				
Antiprostaglandin IC50=9.2 mM				
Antipyretic 3 ml/man/day				
Antiradicular EC50=2 u/l				
Antisalmonella MIC=400 ug/ml				
Antiseptic 3 ml/man/day				
Antiseptic 400 ug/ml				
Antispasmodic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.			
Antistaphylococcic	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia,344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis,NY, NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.			
Antithromboxane	Lawrence Review of Natural Products, Jul-87.			

Antiulcer

Antiviral IC50=16.2-25.6 ug/ml

Apifuge Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.CNS-Depressant Jeffery B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants*. Taylor & Frost, London. 791 pp.

COX-1-Inhibitor IC97=1,000 uM

COX-2-Inhibitor IC>97=1,000 uM

COX-2-Inhibitor IC50=129 uM

Calcium-Antagonist IC50=224 uM

Calcium-Antagonist IC50=200 uM gpg

Cancer-Preventive Stitt, P. A. *Why George Should Eat Broccoli*. Dougherty Co, Milwaukee, WI, 1990, 399 pp.Candidicide *Phytotherapy Research*, 4: 93.Carcinogenic? Nigg, H.N. and Seigler, D.S., eds. 1992. *Phytochemical Resources for Medicine and Agriculture*. Plenum Press, New York. 445 pp.Carminative Yamamoto, A., Umemori, S., and Muranishi, S. 1993. Absorption Enhancement of Intrapulmonary Administered Insulin by Various Absorption Enhancers and Protease Inhibitors in Rats. *J. Pharm. Pharmacol.* 46: 14-18, 1994.

Choleretic

Cytochrome-P450-Inhibitor Pizzorno, J. 1998. *Total Wellness*. Prima Health, a division of Prima.Cytotoxic 25 ug/ml *Phytotherapy Research*, 4: 93.

Dermatitigenic

Enterorelaxant *J. Aromatherapy* 4: 22.

FLavor FEMA 10-500 Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Fungicide

Hepatoprotective 100 ppm

Herbicide

Insecticide

Insectifuge Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Irritant

Juvabional Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Larvicide

Motor-Depressant Buchbauer et al, e.g.Buchbauer et al,1993.Theapeutic properties of essential oils and fragrances. Chap.12 in Teranishi,R, Buttery,R.G and Sugisawa,H. Eds. *Bioactive Volatile Compounds from Plants*. ACS Symposium Series 525. Amer. Chem. Soc., Washington DC

Nematicide MLC=2,000 ug/ml Shoyakugaku Zasshi, 44: 183.

Neurotoxic R.J. Hixtable (Huxtable, R.J. (as T. Max). 1992. *This and That: The Essential Pharmacology of Herbs and Spices*. Tips 13:15-20 Huxtable, R.J. 1992b. *The Myth of Benficial Nature. The Risk of Herbal Preparations*. Ann. Intern. Med. 117(2):165-6; Huxtable, R.

Perfumery Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry

Pesticide

Prostaglandin-Synthesis-Inhibitor 1 mM rbt Chen, S. J., Wang, M. H., Chen, I. J. 1996. Antiplatelet and Calcium Inhibitory Properties of Eugenol and Sodium Eugenol Acetate. *Gen Pharmacol*, 27(4): 629-633.

Prostaglandin-Synthesis-Inhibitor IC50=9.2 uM

Sedative

Termiticide LD100=5 mg/g

Trichomonicide LD100=300 ug/ml

Trichomonistat IC50=10 ug/ml Nigg, H.N. and Seigler, D.S., eds. 1992. *Phytochemical Resources for Medicine and Agriculture*. Plenum Press, New York. 445 pp.

Trypsin-Enhancer Lawrence Review of Natural Products, Dec-93.

Ulcerogenic

Phytotherapy Research, 4: 93.

Varroacide

Vasodilator

Vermifuge

FAT	Root	1000.0	3185.0	-0.66	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
FAT	Shoot	16000.0	35000.0	-0.22	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
FIBER	Stem	--	462000.0	1.14	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities (15)

Angiotensin-Receptor-Blocker

Antidiabetic

Antihypertensive

Antiobesity

Antitumor Pizzorno, J.E. and Murray, M.T. 1985. *A Textbook of Natural Medicine*. John Bastyr College Publications, Seattle, Washington (Looseleaf).Antiuclcer Pizzorno, J.E. and Murray, M.T. 1985. *A Textbook of Natural Medicine*. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	
Diuretic	
Hypocholesterolemic	
Hypotensive 10 g/man/day/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Hypouricemic	
Laxative	
Vasodilator	

FIBER	Shoot	171000.0	275000.0	1.08	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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Activities (15)

Angiotensin-Receptor-Blocker	
Antidiabetic	
Antihypertensive	
Antiobesity	
Antitumor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiulcer	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Beta-Blocker	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	
Diuretic	
Hypocholesterolemic	
Hypotensive 10 g/man/day/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Hypouricemic	
Laxative	
Vasodilator	

FIBER	Root	7000.0	22300.0	-1.46	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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Activities (15)

Angiotensin-Receptor-Blocker	
Antidiabetic	
Antihypertensive	
Antiobesity	
Antitumor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiulcer	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Beta-Blocker	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	
Diuretic	
Hypocholesterolemic	
Hypotensive 10 g/man/day/orl	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Hypouricemic	
Laxative	
Vasodilator	

FLAVONES	Root	--	--	*
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FLUORIDE	Root	--	6.6	-0.38	*
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Activities (3)

Anticariogenic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiosteoporotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antiosteosclerotic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

FORMONONETIN	Root	--	--	*
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Activities (16)

Abortifacient	Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. CRC Handbook of Naturally Occurring Food Toxicants, CRC Press, Boca Raton, 1983, 339 pp.
Anticephalagic	
Antifeedant	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Antiulcer?	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic	Merck 11th Edition

Fungicide
ED50=>100

Fungicide IC16-
18=>100 uM

Herbicide-Safener Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

Hypocholesterolemic

Hypolipidemic

Myorelaxant Pedersen, M. 1987. *Nutritional Herbology*. Pederson Publishing. Bountiful, Utah. 377 pp.

Pesticide

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

VAM-Stimulant Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

FORMONONETIN

Flower -- -- *

Activities (16)

Abortifacient Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. *CRC Handbook of Naturally Occurring Food Toxicants*, CRC Press, Boca Raton, 1983, 339 pp.

Anticephalagic

Antifeedant Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Antiulcer?

Cancer-Preventive Stitt, P. A. *Why George Should Eat Broccoli*. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Estrogenic Merck 11th Edition

Fungicide ED50=250-350 ug/ml Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, *Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology*, v. 4, Oryx Press, Phoenix, 1989, 267pp.

Fungicide ED50=>100

Fungicide IC16-
18=>100 uM

Herbicide-Safener Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

Hypocholesterolemic

Hypolipidemic

Myorelaxant Pedersen, M. 1987. *Nutritional Herbology*. Pederson Publishing. Bountiful, Utah. 377 pp.

Pesticide

Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

VAM-Stimulant Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

FORMONONETIN

Rhizome -- -- *

Activities (16)

Abortifacient Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. *CRC Handbook of Naturally Occurring Food Toxicants*, CRC Press, Boca Raton, 1983, 339 pp.

Anticephalagic

Antifeedant Jacobson, M., *Glossary of Plant-Derived Insect Deterrents*, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.

Antiulcer?

Cancer-Preventive Stitt, P. A. *Why George Should Eat Broccoli*. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Estrogenic Merck 11th Edition

Fungicide ED50=250-350 ug/ml Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, *Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology*, v. 4, Oryx Press, Phoenix, 1989, 267pp.

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Myorelaxant Pedersen, M. 1987. *Nutritional Herbology*. Pederson Publishing. Bountiful, Utah. 377 pp.

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Topoisomerase-I-Inhibitor Santti, R., Makela, S., Strauss, L., Korman, J., Kostian, M. L. 1998. Phytoestrogens: Potential Endocrine Disruptors in Males. *Toxicol Ind Health*, 14: 223-237.

VAM-Stimulant Chau (1985) in Purseglove et al. *Acta Botanica Sinica*, 2.

GENISTEIN

Root -- -- *

Activities (81)

Abortifacient Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. *CRC Handbook of Naturally Occurring Food Toxicants*, CRC Press, Boca Raton, 1983, 339 pp.

Aldose-Reductase-Inhibitor IC50=10 uM

Alpha-Reductase-Inhibitor IC50=35 uM

Antiaggregant 1-10 ug/ml Medline (post 1990 searches filed in my computer)

Antiangiogenic 150 uM

Anticancer (Breast) IC50=2.6-6.7 ug/ml	
Anticarcinomic (Breast) IC50=?640 uM	Medline (post 1990 searches filed in my computer)
Anticlimacteric	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Antiendocytotic 100 ug/ml	Medline (post 1990 searches filed in my computer)
Antiestrogenic	
Antifertility	
Antihemolytic	
Antiimplantation	
Antiinflammatory	Journal of Medicinal Food 2: 179.1999.
Antiischemic	Medline (post 1990 searches filed in my computer)
Antileukemic >50 ug/ml (185 uM)	
Antileukemic IC50=0.010 ug/ml	Life Sciences 55: 1061.
Antileukotriene IC50=10-15 uM	Medline (post 1990 searches filed in my computer)
Antilymphomeric	
Antimelanomic	Medline (post 1990 searches filed in my computer)
Antimicrobial	
Antimitogenic IC50=12 uM	
Antimutagenic ID50=50-100 nM	Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. Phenolic Compounds in Food and Their Effects on Health, Ch.13.
Antineuroblastomic	
Antiosteoporotic	
Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Antiproliferative 5-45 uM	
Antiprostatadenoic 8-27 ug/ml	Medline (post 1990 searches filed in my computer)
Antiprostatic IC50=35 uM	
Antispasmodic IC50=34 uM	
Antitumor (Breast)	
Antitumor (GI)	
Antitumor (Ovary)	
Antitumor (Prostate)	
Antitumor (Stomach)	
Antiulcer?	
Antiviral	
Apoptotic	
Aromatase-Inhibitor IC30=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Calcium-Antagonist 50 uM gpg	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	Journal of Medicinal Food 2: 163.1999.
Catechol-O-Methyltransferase-Inhibitor	
Cytotoxic >50 ug/ml (185 uM)	Medline (post 1990 searches filed in my computer)
Cytotoxic IC89=10 ug/ml	Planta Medica, 57: A113, 1991.
DOPA-Decarboxylase-Inhibitor	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Flatulent	
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora persoonii</i> to the Flavonoids of <i>Prunus cerasus</i> . Phytochemistry. 38(3): 599-601. 1995.
Fungicide ED50=50->100	
Fungistat IC34=200 uM	
Histidine-Kinase-Inhibitor IC50=110 uM	Medline (post 1990 searches filed in my computer)
Hypocholesterolemic ED50=0.5 mg/kg	
Immunostimulant 2-20 mg/kg orl mus	
Lipase-Inhibitor	
MAO-Inhibitor IC50=60-140 uM	
MAO-Inhibitor IC50=95	
MDR-Inhibitor 200 uM	Castro, A. F., Altenberg, G. A. 1997. Inhibition of Drug Transport by Genistein in Multidrug-Resistant Cell Expressing P-Glycoprotein. Biochem Pharmacol, 53(1): 89-93.
NADH-Ubiuinone-Oxidoreductase-Inhibitor	
Natriuretic	

IMMUNO

PTK-Inhibitor 10-100 uM	
Peroxidase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Pesticide	
Phytoalexin	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pituitary-sensitizer	Medline (post 1990 searches filed in my computer)
Quinone-Reductase-Inducer IC50=4.6 ug/ml	
Topoisomerase-I-Inhibitor IC50=250 ppm	
Topoisomerase-I-Inhibitor 1-10 ug/ml	Okura, A., Arakawa, H., Oka, H., Yoshinari, T., Monden, Y. 1988. Effect of Genistein on Topoisomerase Activity and on the Growth of [VAL 12]HARAS-Transformed NIH 3T3 Cells. <i>Biochem Biophys Res Commun</i> , 157: 183-189.
Topoisomerase-II-Inhibitor IC50=1-150 uM	
Topoisomerase-II-Inhibitor 2-7.5 ug/ml	
Topoisomerase-II-Inhibitor IC50=30 ug/ml	Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. <i>J Natural Products</i> , 58: 217-225.
Topoisomerase-II-Inhibitor 20 uM	Markovits, I., et al. 1989. Inhibitory Effects of the Tyrosine Kinase Inhibitor Genistein on Mammalian DNA Topoisomerase II. <i>Cancer Research</i> , 49: 5111-5117.
Topoisomerase-II-Poison	Journal of Medicinal Food 2: 167.1999.
Trypanosomastat	Medline (post 1990 searches filed in my computer)
Tyrosine-Kinase-Inhibitor	
Uterotrophic ED50=0.5 mg/kg	
Uterotrophic EC50=0.1-25 uM/l	
VEGF-Inhibitor	

GENISTEIN

Leaf	--	3.0	-0.83	*
Diffusate				

Activities (81)

Abortifacient	Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. CRC Handbook of Naturally Occurring Food Toxicants, CRC Press, Boca Raton, 1983, 339 pp.
Aldose-Reductase-Inhibitor IC50=10 uM	
Alpha-Reductase-Inhibitor IC50=35 uM	
Antiaggregant 1-10 ug/ml	Medline (post 1990 searches filed in my computer)
Antiangiogenic 150 uM	
Antiatherosclerotic	Journal of Medicinal Food 2: 163.1999.
Anticancer (Breast) IC50=2.6-6.7 ug/ml	
Anticarcinomic (Breast) IC50=?640 uM	Medline (post 1990 searches filed in my computer)
Anticlimacteric	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Antiendocytotic 100 ug/ml	Medline (post 1990 searches filed in my computer)
Antiestrogenic	
Antifertility	
Antihemolytic	
Antiimplantation	
Antiinflammatory	Journal of Medicinal Food 2: 179.1999.
Antiischemic	Medline (post 1990 searches filed in my computer)
Antileukemic >50 ug/ml (185 uM)	
Antileukemic IC50=0.010 ug/ml	Life Sciences 55: 1061.
Antileukotriene IC50=10-15 uM	Medline (post 1990 searches filed in my computer)
Antilymphomeric	
Antimelanomic	Medline (post 1990 searches filed in my computer)
Antimicrobial	
Antimitogenic IC50=12 uM	
Antimutagenic ID50=50-100 nM	Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. Phenolic Compounds in Food and Their Effects on Health, Ch.13.
Antineuroblastomic	
Antiosteoporotic	
Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Antiproliferative 5-45 uM	
Antiprostatadenoic 8-27 ug/ml	Medline (post 1990 searches filed in my computer)
Antiprostatic IC50=35 uM	
Antispasmodic IC50=34 uM	
Antitumor (Breast)	
Antitumor (GI)	

Antitumor (Prostate)	
Antitumor (Stomach)	
Antiulcer?	
Antiviral	
Apoptotic	
Aromatase-Inhibitor IC50=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Calcium-Antagonist 50 uM gpg	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	Journal of Medicinal Food 2: 163.1999.
Catechol-O-Methyltransferase-Inhibitor	
Cytotoxic >50 ug/ml (185 uM)	Medline (post 1990 searches filed in my computer)
Cytotoxic IC89=10 ug/ml	Planta Medica, 57: A113, 1991.
DOPA-Decarboxylase-Inhibitor	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Flatulent	
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora persoonii</i> to the Flavonoids of <i>Prunus cerasus</i> . <i>Phytochemistry</i> , 38(3): 599-601. 1995.
Fungicide ED50=50->100	
Fungistat IC34=200 uM	
Histidine-Kinase-Inhibitor IC50=110 uM	Medline (post 1990 searches filed in my computer)
Hypocholesterolemic ED50=0.5 mg/kg	
Immunostimulant 2-20 mg/kg orl mus	
Lipase-Inhibitor	
MAO-Inhibitor IC50=60-140 uM	
MAO-Inhibitor IC50=95	
MDR-Inhibitor 200 uM	Castro, A. F., Altenberg, G. A. 1997. Inhibition of Drug Transport by Genistein in Multidrug-Resistant Cell Expressing P-Glycoprotein. <i>Biochem Pharmacol</i> , 53(1): 89-93.
NADH-Ubiquinone-Oxidoreductase-Inhibitor	
Natriuretic	
Ornithine-Decarboxylase-Inhibitor	
PTK-Inhibitor 10-100 uM	
Peroxidase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Pesticide	
Phytoalexin	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Pituitary-sensitizer	Medline (post 1990 searches filed in my computer)
Quinone-Reductase-Inducer IC50=4.6 ug/ml	
Topoisomerase-I-Inhibitor IC50=250 ppm	
Topoisomerase-I-Inhibitor 1-10 ug/ml	Okura, A., Arakawa, H., Oka, H., Yoshinari, T., Monden, Y. 1988. Effect of Genistein on Topoisomerase Activity and on the Growth of [VAL 12]HA-RAS-Transformed NIH 3T3 Cells. <i>Biochem Biophys Res Commun</i> , 157: 183-189.
Topoisomerase-II-Inhibitor IC50=1-150 uM	
Topoisomerase-II-Inhibitor 2-7.5 ug/ml	
Topoisomerase-II-Inhibitor IC50=30 ug/ml	Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. <i>J Natural Products</i> , 58: 217-225.
Topoisomerase-II-Inhibitor 20 uM	Markovits, J., et al. 1989. Inhibitory Effects of the Tyrosine Kinase Inhibitor Genistein on Mammalian DNA Topoisomerase II. <i>Cancer Research</i> , 49: 5111-5117.
Topoisomerase-II-Poison	Journal of Medicinal Food 2: 167.1999.
Trypanosomastat	Medline (post 1990 searches filed in my computer)
Tyrosine-Kinase-Inhibitor	
Uterotrophic ED50=0.5 mg/kg	
Uterotrophic EC50=0.1-25 uM/l	
VEGF-Inhibitor	

GENISTEIN

Stem -- -- *

Activities (81)

Abortifacient	Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. <i>CRC Handbook of Naturally Occurring Food Toxicants</i> , CRC Press, Boca Raton, 1983, 339 pp.
Aldose-Reductase-Inhibitor IC50=10 uM	
Alpha-Reductase-Inhibitor	

Antiaggregant 1-10 ug/ml	Medline (post 1990 searches filed in my computer)
Antiangiogenic 150 uM	
Antiatherosclerotic	Journal of Medicinal Food 2: 163.1999.
Anticancer (Breast) IC50=2.6-6.7 ug/ml	
Anticarcinomic (Breast) IC50=?640 uM	Medline (post 1990 searches filed in my computer)
Anticlimacteric	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Antidiocytotic 100 ug/ml	Medline (post 1990 searches filed in my computer)
Antiestrogenic	
Antifertility	
Antihemolytic	
Antiimplantation	
Antiinflammatory	Journal of Medicinal Food 2: 179.1999.
Antiischemic	Medline (post 1990 searches filed in my computer)
Antileukemic >50 ug/ml (185 uM)	
Antileukemic IC50=0.010 ug/ml	Life Sciences 55: 1061.
Antileukotriene IC50=10-15 uM	Medline (post 1990 searches filed in my computer)
Antilymphomimic	
Antimelanomic	Medline (post 1990 searches filed in my computer)
Antimicrobial	
Antimitogenic IC50=12 uM	
Antimutagenic ID50=50-100 nM	Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. Phenolic Compounds in Food and Their Effects on Health, Ch.13.
Antineuroblastomic	
Antiosteoporotic	
Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Antiproliferative 5-45 uM	
Antiprostatadenoic 8-27 ug/ml	Medline (post 1990 searches filed in my computer)
Antiprostatic IC50=35 uM	
Antispasmodic IC50=34 uM	
Antitumor (Breast)	
Antitumor (GI)	
Antitumor (Ovary)	
Antitumor (Prostate)	
Antitumor (Stomach)	
Antulcer?	
Antiviral	
Apoptotic	
Aromatase-Inhibitor IC30=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Calcium-Antagonist 50 uM gpg	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	Journal of Medicinal Food 2: 163.1999.
Catechol-O-Methyltransferase-Inhibitor	
Cytotoxic >50 ug/ml (185 uM)	Medline (post 1990 searches filed in my computer)
Cytotoxic IC89=10 ug/ml	Planta Medica, 57: A113, 1991.
DOPA-Decarboxylase-Inhibitor	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
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Fungistat IC34=200 uM	
Histidine-Kinase-Inhibitor IC50=110 uM	Medline (post 1990 searches filed in my computer)
Hypocholesterolemic ED50=0.5 mg/kg	
Immunostimulant 2-20 mg/kg orl mus	
Lipase-Inhibitor	
MAO-Inhibitor IC50=60-140 uM	
MAO-Inhibitor IC50=95	
MDR-Inhibitor 200 uM	Castro, A. F., Altenberg, G. A. 1997. Inhibition of Drug Transport by Genistein in Multidrug-Resistant Cell Expressing P-Glycoprotein. Biochem Pharmacol, 53(1): 89-93.

Oxidoreductase-Inhibitor

Natriuretic

Ornithine-Decarboxylase-Inhibitor

PTK-Inhibitor 10-100 uM

Peroxidase-Inhibitor Jefferay B. Harborne and H. Baxter, eds. 1983. *Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.* Taylor & Frost, London. 791 pp.

Pesticide

Phytoalexin Nigg, H.N. and Seigler, D.S., eds. 1992. *Phytochemical Resources for Medicine and Agriculture.* Plenum Press, New York. 445 pp.

Pituitary-sensitizer Medline (post 1990 searches filed in my computer)

Quinone-Reductase-Inducer IC50=4.6 ug/ml

Topoisomerase-I-Inhibitor IC50=250 ppm

Topoisomerase-I-Inhibitor 1-10 ug/ml Okura, A., Arakawa, H., Oka, H., Yoshinari, T., Monden, Y. 1988. Effect of Genistein on Topoisomerase Activity and on the Growth of [VAL 12]HA-RAS-Transformed NIH 3T3 Cells. *Biochem Biophys Res Commun*, 157: 183-189.

Topoisomerase-II-Inhibitor IC50=1-150 uM

Topoisomerase-II-Inhibitor 2-7.5 ug/ml

Topoisomerase-II-Inhibitor IC50=30 ug/ml Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. *J Natural Products*, 58: 217-225.Topoisomerase-II-Inhibitor 20 uM Markovits, J., et al. 1989. Inhibitory Effects of the Tyrosine Kinase Inhibitor Genistein on Mammalian DNA Topoisomerase II. *Cancer Research*, 49: 5111-5117.

Topoisomerase-II-Poison Journal of Medicinal Food 2: 167.1999.

Trypanosomastat Medline (post 1990 searches filed in my computer)

Tyrosine-Kinase-Inhibitor

Uterotrophic ED50=0.5 mg/kg

Uterotrophic EC50=0.1-25 uM/l

VEGF-Inhibitor

GENISTEIN

Flower -- -- *

Activities (81)Abortifacient Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. *CRC Handbook of Naturally Occurring Food Toxicants*, CRC Press, Boca Raton, 1983, 339 pp.

Aldose-Reductase-Inhibitor IC50=10 uM

Alpha-Reductase-Inhibitor IC50=35 uM

Antiaggregant 1-10 ug/ml Medline (post 1990 searches filed in my computer)

Antiangiogenic 150 uM

Antiatherosclerotic Journal of Medicinal Food 2: 163.1999.

Anticancer (Breast) IC50=2.6-6.7 ug/ml

Anticarcinomic (Breast) IC50=?640 uM Medline (post 1990 searches filed in my computer)

Anticlimacteric Duke, J. A. Write ups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.

Antiendocytotic 100 ug/ml Medline (post 1990 searches filed in my computer)

Antiestrogenic

Antifertility

Antihemolytic

Antiimplantation

Antiinflammatory Journal of Medicinal Food 2: 179.1999.

Antiischemic Medline (post 1990 searches filed in my computer)

Antileukemic >50 ug/ml (185 uM)

Antileukemic IC50=0.010 ug/ml Life Sciences 55: 1061.

Antileukotriene IC50=10-15 uM Medline (post 1990 searches filed in my computer)

Antilymphomeric

Antimelanomic Medline (post 1990 searches filed in my computer)

Antimicrobial

Antimitogenic IC50=12 uM

Antimutagenic ID50=50-100 nM Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. *Phenolic Compounds in Food and Their Effects on Health*, Ch.13.

Antineuroblastomic

Antiosteoporotic

Antioxidant *Phenolic Compounds in Food and Their Effects on Health*, 64.

Antiproliferative 5-45 uM

Antiprostatadenoic 8-27 ug/ml Medline (post 1990 searches filed in my computer)

Antiprostatic IC50=35 uM

Antispasmodic IC50=34 uM

Antitumor (GI)	
Antitumor (Ovary)	
Antitumor (Prostate)	
Antitumor (Stomach)	
Antiulcer?	
Antiviral	
Apoptotic	
Aromatase-Inhibitor IC30=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Calcium-Antagonist 50 uM gpg	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	Journal of Medicinal Food 2: 163.1999.
Catechol-O-Methyltransferase-Inhibitor	
Cytotoxic >50 ug/ml (185 uM)	Medline (post 1990 searches filed in my computer)
Cytotoxic IC89=10 ug/ml	Planta Medica, 57: A113, 1991.
DOPA-Decarboxylase-Inhibitor	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Flatulent	
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora persoonii</i> to the Flavonoids of <i>Prunus cerasus</i> . Phytochemistry. 38(3): 599-601. 1995.
Fungicide ED50=50->100	
Fungistat IC34=200 uM	
Histidine-Kinase-Inhibitor IC50=110 uM	Medline (post 1990 searches filed in my computer)
Hypocholesterolemic ED50=0.5 mg/kg	
Immunostimulant 2-20 mg/kg orl mus	
Lipase-Inhibitor	
MAO-Inhibitor IC50=60-140 uM	
MAO-Inhibitor IC50=95	
MDR-Inhibitor 200 uM	Castro, A. F., Altenberg, G. A. 1997. Inhibition of Drug Transport by Genistein in Multidrug-Resistant Cell Expressing P-Glycoprotein. Biochem Pharmacol, 53(1): 89-93.
NADH-Ubiuinone-Oxidoreductase-Inhibitor	
Natriuretic	
Ornithine-Decarboxylase-Inhibitor	
PTK-Inhibitor 10-100 uM	
Peroxidase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Pesticide	
Phytoalexin	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Pituitary-sensitizer	Medline (post 1990 searches filed in my computer)
Quinone-Reductase-Inducer IC50=4.6 ug/ml	
Topoisomerase-I-Inhibitor IC50=250 ppm	
Topoisomerase-I-Inhibitor 1-10 ug/ml	Okura, A., Arakawa, H., Oka, H., Yoshinari, T., Monden, Y. 1988. Effect of Genistein on Topoisomerase Activity and on the Growth of [VAL 12]HA-RAS-Transformed NIH 3T3 Cells. Biochem Biophys Res Commun, 157: 183-189.
Topoisomerase-II-Inhibitor IC50=1-150 uM	
Topoisomerase-II-Inhibitor 2-7.5 ug/ml	
Topoisomerase-II-Inhibitor IC50=30 ug/ml	Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. J Natural Products, 58: 217-225.
Topoisomerase-II-Inhibitor 20 uM	Markovits, J., et al. 1989. Inhibitory Effects of the Tyrosine Kinase Inhibitor Genistein on Mammalian DNA Topoisomerase II. Cancer Research, 49: 5111-5117.
Topoisomerase-II-Poison	Journal of Medicinal Food 2: 167.1999.
Trypanosomastat	Medline (post 1990 searches filed in my computer)
Tyrosine-Kinase-Inhibitor	
Uterotrophic ED50=0.5 mg/kg	
Uterotrophic EC50=0.1-25 uM/l	
VEGF-Inhibitor	

GENISTEIN	Leaf	--	316.9	-0.9	Kaufman,PB,Duke,JA,Brielmann,H,Boik,J and Hoyt,JE. 1997. A Comparative Survey of Leguminous Plants as Sources of the Isoflavones Genistein and Daidzein: Implications For Human Nutrition and Health. Journal of Alternative & Complementary Medicine 3(1):7-12
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Abortifacient	Cooper-Driver, G. A., Chemical substances in plants toxic to animals, pp. 213-47 in Rechcigl, M., Jr., ed. CRC Handbook of Naturally Occurring Food Toxicants, CRC Press, Boca Raton, 1983, 339 pp.
Aldose-Reductase-Inhibitor IC50=10 uM	
Alpha-Reductase-Inhibitor IC50=35 uM	
Antiaggregant 1-10 ug/ml	Medline (post 1990 searches filed in my computer)
Antiangiogenic 150 uM	
Antiatherosclerotic	Journal of Medicinal Food 2: 163.1999.
Anticancer (Breast) IC50=2.6-6.7 ug/ml	
Anticarcinomic (Breast) IC50=?640 uM	Medline (post 1990 searches filed in my computer)
Anticlimacteric	Duke, J. A. Writeups or information summaries on approximately 2,000 economic plants, USDA, ARS, Beltsville, MD 20705.
Antidiocytotic 100 ug/ml	Medline (post 1990 searches filed in my computer)
Antiestrogenic	
Antifertility	
Antihemolytic	
Antiimplantation	
Antiinflammatory	Journal of Medicinal Food 2: 179.1999.
Antiischemic	Medline (post 1990 searches filed in my computer)
Antileukemic >50 ug/ml (185 uM)	
Antileukemic IC50=0.010 ug/ml	Life Sciences 55: 1061.
Antileukotriene IC50=10-15 uM	Medline (post 1990 searches filed in my computer)
Antilymphomeric	
Antimelanomic	Medline (post 1990 searches filed in my computer)
Antimicrobial	
Antimitogenic IC50=12 uM	
Antimutagenic ID50=50-100 nM	Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. Phenolic Compounds in Food and Their Effects on Health, Ch.13.
Antineuroblastomic	
Antosteoporotic	
Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Antiproliferative 5-45 uM	
Antiprostatadenomic 8-27 ug/ml	Medline (post 1990 searches filed in my computer)
Antiprostatic IC50=35 uM	
Antispasmodic IC50=34 uM	
Antitumor (Breast)	
Antitumor (GI)	
Antitumor (Ovary)	
Antitumor (Prostate)	
Antitumor (Stomach)	
Antiulcer?	
Antiviral	
Apoptotic	
Aromatase-Inhibitor IC30=1 uM/l	Journal of Medicinal Food 2: 235.1999.
Calcium-Antagonist 50 uM gpg	
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Cardioprotective	Journal of Medicinal Food 2: 163.1999.
Catechol-O-Methyltransferase-Inhibitor	
Cytotoxic >50 ug/ml (185 uM)	Medline (post 1990 searches filed in my computer)
Cytotoxic IC89=10 ug/ml	Planta Medica, 57: A113, 1991.
DOPA-Decarboxylase-Inhibitor	
Estrogen-Agonist 0.1-1 uM/l	Journal of Medicinal Food 2: 139.1999.
Estrogenic EC50=0.1-25 uM/l	
Flatulent	
Fungicide 2.5 mM	Geibel, M. 1994. Sensitivity of the Fungus <i>Cytospora persoonii</i> to the Flavonoids of <i>Prunus cerasus</i> . Phytochemistry. 38(3): 599-601. 1995.
Fungicide ED50=50->100	
Fungistat IC34=200 uM	
Histidine-Kinase-Inhibitor IC50=110 uM	Medline (post 1990 searches filed in my computer)
Hypocholesterolemic ED50=0.5 mg/kg	
Immunostimulant 2-20 mg/kg orl mus	
Lipase-Inhibitor	

uM				
MAO-Inhibitor IC50=95				
MDR-Inhibitor 200 uM	Castro, A. F., Altenberg, G. A. 1997. Inhibition of Drug Transport by Genistein in Multidrug-Resistant Cell Expressing P-Glycoprotein. <i>Biochem Pharmacol</i> , 53(1): 89-93.			
NADH-Ubiuinone-Oxidoreductase-Inhibitor				
Natriuretic				
Ornithine-Decarboxylase-Inhibitor				
PTK-Inhibitor 10-100 uM				
Peroxidase-Inhibitor	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.			
Pesticide				
Phytoalexin	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.			
Pituitary-sensitizer	Medline (post 1990 searches filed in my computer)			
Quinone-Reductase-Inducer IC50=4.6 ug/ml				
Topoisomerase-I-Inhibitor IC50=250 ppm	Okura, A., Arakawa, H., Oka, H., Yoshinari, T., Monden, Y. 1988. Effect of Genistein on Topoisomerase Activity and on the Growth of [VAL 12]HA-RAS-Transformed NIH 3T3 Cells. <i>Biochem Biophys Res Commun</i> , 157: 183-189.			
Topoisomerase-I-Inhibitor 1-10 ug/ml				
Topoisomerase-II-Inhibitor IC50=1-150 uM				
Topoisomerase-II-Inhibitor 2-7.5 ug/ml				
Topoisomerase-II-Inhibitor IC50=30 ug/ml	Constantinou, A., Mehta, R., Runyan, C., Rao, K., Vaughan, A., Moon, R. 1995. Flavonoids as DNA Topoisomerase Antagonists and Poisons: Structure-Activity Relationships. <i>J Natural Products</i> , 58: 217-225.			
Topoisomerase-II-Inhibitor 20 uM	Markovits, J., et al. 1989. Inhibitory Effects of the Tyrosine Kinase Inhibitor Genistein on Mammalian DNA Topoisomerase II. <i>Cancer Research</i> , 49: 5111-5117.			
Topoisomerase-II-Poison	Journal of Medicinal Food 2: 167.1999.			
Trypanosomastat	Medline (post 1990 searches filed in my computer)			
Tyrosine-Kinase-Inhibitor				
Uterotrophic ED50=0.5 mg/kg				
Uterotrophic EC50=0.1-25 uM/l				
VEGF-Inhibitor				

GENISTEIN-8-C-APIOSYL-(1,6)-GLUCOSIDE	Root	--	10.0	*
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GENISTEIN-8-C-GLUCOSIDE	Root	--	--	*
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GENISTEIN-8-GLUCOSIDE	Tissue Culture	--	--	*
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GENISTIN	Flower	--	--	*
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Activities (3)

Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Estrogenic	
Fungicide	

GENISTIN	Leaf	--	20.0	*
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Activities (3)

Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Estrogenic	
Fungicide	

GENISTIN	Stem	--	21.0	*
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Activities (3)

Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Estrogenic	
Fungicide	

GENISTIN	Root	--	1120.0	*
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Activities (3)

Antioxidant	Phenolic Compounds in Food and Their Effects on Health, 64.
Estrogenic	
Fungicide	

GENISTIN	Tissue	--	53.0	*
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Activities (3)

Antioxidant Phenolic Compounds in Food and Their Effects on Health, 64.

Estrogenic

Fungicide

GLYCINOL

Leaf -- -- *

Activities (3)

Fungicide ED50=50->100

Pesticide

Phytoalexin Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

GLYCINOL

Leaf -- 32.0 *
Diffusate

Activities (3)

Fungicide ED50=50->100

Pesticide

Phytoalexin Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

GLYCITEIN

Flower -- 88.0 *

Activities (5)

Antioxidant Pratt, D.E. Natural Antioxidants from Plant Material. Phenolic Compounds in Food and Their Effects on Health, Ch.5.

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Estrogenic

Fungicide ED50=>100

Pesticide

HEX-CIS-3-EN-1-OL

Fruit -- -- *
Essent.
Oil

IRISOLIDONE

Leaf -- -- List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

IRISOLIDONE

Flower -- -- *

IRISOLIDONE-7-O-BETA-D-GLUCOSIDE

Flower -- 2500.0 *

IRISOLIDONE-7-O-GLUCOSIDE

Leaf -- -- List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

IRISOLIDONE-7-O-GLUCOSIDE

Flower -- -- *

IRISOLIDONE-7-O-XYLOSYLGLUCOSIDE

Flower -- -- *

IRON

Root 6.0 19.0 -0.41 CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses

Activities (6)

Antiakathisic

Martindale's 29th

Antianemic

Martindale's 29th

Anticanker

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Anticheilitic

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

Prooxidant

IRISOLIDONE-7-O-BETA-D-XYLOSYL-

GLUCOSIDE Flower -- -- *

ISOAMYL-ALCOHOL

Fruit -- -- *
Essent.
Oil

Activities (3)

Emetic Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

Irritant Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.

ISOFLAVONES	Root	17700.0	120000.0	*
ISOLIQUIRITIGENIN	Root	--	--	*
Activities (28)				
Aldose-Reductase-Inhibitor				
IC50=0.32 uM				
Aldose-Reductase-Inhibitor 0.1 ug/ml				
AntiPAF				
AntiPAF				
Antiaggregant				
Antiallergic				
Antidepressant				Williamson, E. M. and Evans, F. J., Potter's New Cyclopaedia of Botanical Drugs and Preparations, Revised Ed., Saffron Walden, the C. W. Daniel Co., Ltd., Essex UK, 362 pp, 1988, reprint 1989.
Antidiabetic				
Antiischemic				
Antioxidant				
Antispasmodic				
Antitumor				
Antiulcer				
Antiviral				
Apoptotic				
Cancer-Preventive				
Cyclooxygenase-Inhibitor				
Estrogenic				
Lipoxygenase-Inhibitor				
MAO-Inhibitor EC50=17 uM				Wichtl, M. 1984. Teedrogen. Ein Handbuch für Apotheker und Ärzte. Wissenschaftliche Verlagsgesellschaft mbH Stuttgart. 393 pp.
MAO-Inhibitor IC50=>200				
Myorelaxant				
Peroxidase-Inhibitor				
Pigment				Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Quinone-Reductase-Inhibitor				
IC50=27.3 uM				
Quinone-Reductase-Inhibitor				
IC76=10 ug/ml				
Tyrosine-Kinase-Inhibitor				
IC50=8.1 uM				
Vasorelaxant				

ISOVALERIC-ACID	Fruit Essent. Oil	--	--	*
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Activities (5)

FLavor FEMA 1-16	Aloe Research Council - Duke write up of non-peer reviewed book by Coats and draft by Henry
Irritant	Zeebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.
Perfumery	Merck 11th Edition
Sedative	
Tranquilizer	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.

KAEMPFEROL-3-O-RHAMNOSYL-GALACTOSIDE-7-O-RHAMNOSE	Plant	--	--	*	
KAIKASAPONIN-III	Leaf	--	200.0	*	
KAIKASAPONIN-III	Flower	--	32.4	*	
KAKKALIDE	Flower	--	16216.0	*	
KAKKANIN	Flower	--	--	*	
KILOCALORIES	Root	1130.0	3600.0	0.51	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
KUDZUISOFLAVONE-A	Tissue Culture	--	0.75	*	
KUDZUISOFLAVONE-B	Tissue Culture	--	1.75	*	
KUDZUSAPOPENOL-A	Root	--	--	*	

KUDZUSAPOPENOL-D-METHYL-ESTER	Root	--	--	--
KUDZUSAPOPENOL-C	Root	--	--	*
KUDZUSAPONIN-A-1	Root	--	0.09	*
KUDZUSAPONIN-A-2	Root	--	0.08	*
KUDZUSAPONIN-A-3	Root	--	0.36	*
KUDZUSAPONIN-A-4	Root	--	0.08	*
KUDZUSAPONIN-A-5	Root	--	0.32	*
KUDZUSAPONIN-C-1	Root	--	0.09	*
KUDZUSAPONIN-SA-1	Root	--	0.08	*
KUDZUSAPONIN-SA-2	Root	--	0.1	*
KUDZUSAPONIN-SA-3	Root	--	0.09	*
KUDZUSAPONIN-SA-4	Root	--	0.08	*
KUDZUSAPONIN-SB-1	Root	--	0.08	*
KUZUBUTENOLIDE-A	Root	--	1.4	*
LINOLEIC-ACID	Stem	--	--	*

Activities (27)

5-Alpha-Reductase-Inhibitor

AntiMS	Economic & Medicinal Plant Research, 6: 189.
Antiacne	
Antialope cic	
Antianaphylactic	Economic & Medicinal Plant Research, 6: 189.
Antiandrogenic	
Antiarteriosclerotic	
Antiarthritic	Economic & Medicinal Plant Research, 6: 189.
Anticorony	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, Londón. 791 pp.
Antieczemic	Economic & Medicinal Plant Research, 6: 189.
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antigranular	
Antihistaminic	Economic & Medicinal Plant Research, 6: 189.
Antiinflammatory IC50=31 uM	
Antileukotriene-D4 IC50=31 uM	
Antimennorrhagic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiprostatic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Carcinogenic	
Comedolytic	
Hepatoprotective	
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Immunomodulator	Economic & Medicinal Plant Research, 6: 189.
Insectifuge	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Metastatic	Science News, 146: 421.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Propecic	

LINOLENIC-ACID	Stem	--	--	--	*
LUPENONE	Root	--	--	--	*
LUPIWIGHTEONE	Stem	--	--	--	*
MAGNESIUM	Shoot	800.0	850.0	-0.92	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.

Activities (65)

AntiCFS
AntiLyme 400-1,000 mg
AntiMS
AntiPMS 400-800 mg/day/wmn/orl
AntiPMS 400-800

AntiRaynaud's	280-350 mg/day	
Antiaggregant	400 mg/day	
Antialcoholic		
Antiangular	400 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antianorectic		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antianxiety	400 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antiarrhythmic	400 mg/day	
Antiarthritic		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antiasthmatic		Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiatherosclerotic	400 mg/day	
Anticephalagic		
Anticlimacteric	500-750 mg/day	
Anticonvulsant		Facciola, S. 1998. <i>Cornucopia - A Source Book of Edible Plants</i> . Kampong Publications, Vista CA. 713 pp.
Anticoronal	400 mg/day	Chalelm, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95
Antidepressant		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antidiabetic	400-800 mg/man/day	
Antidysmenorrheic	100 mg 4 x/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antiendometriotic	500 mg/day	
Antienterotic		
Antiepileptic	450 mg/day	
Antifatigue		
Antifibromyalgic	200-300 mg 3x/day	
Antigastric		
Antiglaucomic		
Antihyperkinetic		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antihypertensive		
Antihypoglycemic		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antiinflammatory	100 mg 4 x/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antiinsomniac		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antilithic		Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antimastalgic		Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antimenopausal	500-750 mg/day	
Antimigraine	200 mg/day/man	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antimiral-valve-prolapso		
Antinephrolytic		
Antineurotic		Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Antosteoporotic	500-1,000 mg/day/wmn/orf	
Antiplaque	500-1,000 mg/day	
Antiretinopathic	400 mg/day	Chalelm, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95
Antispasmodic		
Antispasmophilic	500 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antistress	500-750 mg/day	
Antistroke	400 mg/day	Chalelm, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95
Antisyndrome-X	400 mg/man/day	Chalelm, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95
Anxiolytic	500-750 mg/day	
CNS-Depressant		Facciola, S. 1998. <i>Cornucopia - A Source Book of Edible Plants</i> . Kampong Publications, Vista CA. 713 pp.
Calcium-Antagonist		
Cardioprotective		
Diuretic		
Hypocholesterolemic	400 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Hypotensive	260-500 mg/day	
Immunomodulator		
Insulinogenic	400 mg/day	Chalelm, J., Berkson, Burt, and Smith, Melissa Dianne. 2000. <i>Syndrome X - The complete nutritional program to prevent and reserve insulin resistance</i> . John Wiley & Sons, New York. 272 pp. \$24.95
Laxative	300-500 mg/day	
Litholytic		
Myorelaxant	100 mg 4 x/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Neurotransmitter		
Tranquilizer	500-750 mg/day	
Uterorelaxant	100 mg 4 x/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.

MALVIN	Flower	--	--	*
Activities (2)				
Antioxidant				
Pigment	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
N-ACYL-N-1-GLUCOSYLTRYPTOPHAN	Flower	--	--	*
NICOTIFLORIN	Leaf	--	350.0	1.0
OCT-1-EN-3-OL	Fruit Essent. Oil	--	--	*
OCTAN-1-OL	Fruit Essent. Oil	--	--	*
ONONIN	Flower	--	--	*
Activities (2)				
Hemolytic	Madaus, G. 1976. Lehrbuch der Biologischen Hilfsmittel. Vol. 1-3. 2862 pp. (+ 144 p. index). Georg Olms Verlag, Hildesheim. Reprint of 1938 Madaus.			
Irritant				
P-COUMARIC-ACID	Flower	--	--	*
Activities (25)				
Aldose-Reductase-Inhibitor 4 ug/ml (weak activity)	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110.			
Allelopathic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antibacterial	Pharmazie, 46: 156, 1991.			
Anticlastogen				
Antifertility				
Antihepatotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antileukemic IC50=25-56 ug/ml	Chiang, L.C., Chiang, W., Chang, M. Y., Ng, L. T., Lin, C. C. 2003. Antileukemic activity of selected natural products in Taiwan. <i>Am J Chin Med</i> , 31(1):37-46.			
Antinitrosaminic	Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code</i> . Hyperion, NY.			
Antioxidant IC24=30 ppm				
Antioxidant 1/3 BHA				
Antiperoxidant IC50=>100 uM	Planta Medica, 57: A54, 1991.			
Antiseptic				
Antispasmodic	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.			
Antitumor				
Cancer-Preventive				
Chemopreventive				
Choleretic				
Cytotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Diaphoretic?	Lawrence Review of Natural Products, Dec-90.			
Fungicide	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.			
Lipoxygenase-Inhibitor IC11=5 mM	Oszmiński, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690.			
Pesticide				
Prostaglandigenic				
Prostaglandin-Synthesis-Inhibitor				
Tyrosinase-Inhibitor ID50=3,650 uM				
P-COUMARIC-ACID	Leaf	--	--	List, P.H. and Horhammer, L., <i>Hager's Handbuch der Pharmazeutischen Praxis</i> , Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
Activities (25)				
Aldose-Reductase-Inhibitor 4 ug/ml (weak activity)	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110.			
Allelopathic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Antibacterial	Pharmazie, 46: 156, 1991.			
Anticlastogen				
Antifertility				
Antihepatotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			

	Med, 31(1):37-46.
Antinitrosaminic	Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code</i> . Hyperion, NY.
Antioxidant IC24=30 ppm	
Antioxidant 1/3 BHA	
Antiperoxidant IC50=>100 uM	Planta Medica, 57: A54, 1991.
Antiseptic	
Antispasmodic	Newall, C. A., Anderson, L. A. and Phillipson, J. D. 1996. <i>Herbal Medicine - A Guide for Health-care Professionals</i> . The Pharmaceutical Press, London. 296pp.
Antitumor	
Cancer-Preventive	
Chemopreventive	
Choleretic	
Cytotoxic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Diaphoretic?	Lawrence Review of Natural Products, Dec-90.
Fungicide	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Lipoxygenase-Inhibitor IC11=5 mM	Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690.
Pesticide	
Prostaglandigenic	
Prostaglandin-Synthesis-Inhibitor	
Tyrosinase-Inhibitor ID50=3,650 uM	

P-HYDROXYBENZOIC-ACID-METHYL-ESTER	Stem	--	0.1	*
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PALMITIC-ACID	Stem	--	--	*
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Activities (13)

5-Alpha-Reductase-Inhibitor	
Antialopecic	
Antiandrogenic	
Antifibrinolytic	Economic & Medicinal Plant Research, 1: 53.
Antioxidant IC40=60	
FLavor FEMA 1	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hemolytic	Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.
Hypercholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. <i>CRC Handbook of Lipids in Human Nutrition</i> . CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Nematicide	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Pesticide	
Propeptic	
Soap	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.

PHASEOLLIDIN	Leaf	--	2.0	-1.0	*
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Activities (2)

Fungicide	
Pesticide	

PHENYLETHANOL	Fruit	--	--	*
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PHOSPHORUS	Shoot	470.0	2440.0	-0.43	ANON. 1948-1976. <i>The Wealth of India raw materials</i> . Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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Activities (4)

Antiosteoporotic	Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
Anxiolytic	
Immunostimulant	Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.

PHOSPHORUS	Root	180.0	575.0	-0.52	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
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Activities (4)

Antiosteoporotic	Davies, S., and Stewart, A. 1990. <i>Nutritional Medicine</i> . Avon Books, New York. 509pp.
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Immunostimulant Osteogenic	Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp. Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.			
PHYTOL	Leaf Essent. Oil	--	46300.0	*
Activities (1)				
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.			
POTASSIUM	Shoot	16000.0	36050.0	0.86
				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
Activities (14)				
Angiotensin-Receptor-Blocker				
Antiarrhythmic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antidepressant				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antifatigue				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antihypertensive				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antispasmodic				Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.
Antistroke				
Anxiolytic				
Beta-Blocker				
Cardioprotective 3,000-5,000 mg				
Cardiotoxic 18,000 mg/man/day				
Diuretic				
Hypotensive				
Vasodilator				
PROPIONIC-ACID	Fruit Essent. Oil	--	--	*
Activities (6)				
FLavor FEMA 1- 36,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry			
Fungicide 2,500-36,000				
Irritant	Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.			
Perfumery				
Pesticide				
Rubefacient	Zebovitz, T. C. Ed. 1989. Part VII. Flavor and Fragrance Substances, in Keith L. H. and Walters, D.B., eds. Compendium of Safety Data Sheets for Research and Industrial Chemicals. VCH Publishers, New York. 3560-4253.			
PROTEIN	Shoot	131000.0	168600.0	-0.38
				ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
PROTEIN	Root	21000.0	66890.0	-0.58
				CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
PUERARIA-GLYCOSIDE-1	Root	--	--	
				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
PUERARIA-GLYCOSIDE-2	Root	--	--	
				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
PUERARIA-GLYCOSIDE-3	Root	--	--	
				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
PUERARIA-GLYCOSIDE-4	Root	--	--	
				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
PUERARIA-GLYCOSIDE-5	Root	--	--	
				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
PUERARIA-GLYCOSIDE-6	Root	--	--	
				Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
PUERARIA-GLYCOSIDE-PG-1	Root	--	--	*
PUERARIA-GLYCOSIDE-PG-2	Root	--	--	*
PUERARIA-GLYCOSIDE-PG-3	Root	--	--	*
PUERARIA-GLYCOSIDE-PG-6	Root	--	--	*

Activities (49)

ABeta-Inhibitor	
Aldose-Reductase-Inhibitor	
Alpha-Amylase-Inhibitor	Soumyanath, A. Ed. 2006. Traditional Medicines for Modern Times - Antidiabetic Plants. CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Alpha-Glucosidase-Inhibitor	Soumyanath, A. Ed. 2006. Traditional Medicines for Modern Times - Antidiabetic Plants. CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Antiaddictive	
Antidiuretic	
Antiaggregant	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antialzheimeran	
Antiarrhythmic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antithrombotic	
Anticapillary-Fragility	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Anticephalitic	
Anticlimacteric	
Antideafness	
Antidementia	
Antidiabetic 15 mg/kg ivn rat	
Antiendometriotic	
Antihangover	
Antihyperglycemic 15 mg/kg	
Antiinflammatory	
Antiischemic	
Antimyocarditis	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antiosteoporotic	
Antioxidant	
Antiparkinsonian	
Antiradicular	
Antitumor (Colon)	
Antivasoconstrictive	
Antiwithdrawal	
Anxiolytic	
Apoptotic	
Aromatase-Inhibitor	
Beta-Blocker	
Cardioprotective	
Chemopreventive	
Cytoprotective	
Estrogenic	
Hepatoprotective	
Hypocholesterolemic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Hypoglycemic	
Hypotensive ivn	
MDR-Inhibitor	
Myorelaxant	
NF-kB-Inhibitor	
NO-Genic	
Neuroprotective	
Osteogenic	
Pancreaprotective	
Xanthine-Oxidase-Inhibitor	Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livingston, Edinburgh.

PUERARIN

Plant -- -- *

Activities (49)

ABeta-Inhibitor	
Aldose-Reductase-Inhibitor	
Alpha-Amylase-Inhibitor	Soumyanath, A. Ed. 2006. Traditional Medicines for Modern Times - Antidiabetic Plants. CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Alpha-Glucosidase-Inhibitor	Soumyanath, A. Ed. 2006. Traditional Medicines for Modern Times - Antidiabetic Plants. CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Antiaddictive	
Antidiuretic	
Antiaggregant	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antialzheimeran	

Antiatherosclerotic	
Anticapillary-Fragility	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Anticephalic	
Anticlimacteric	
Antideafness	
Antidementia	
Antidiabetic 15 mg/kg ivn rat	
Antiendometriotic	
Antihangover	
Antihyperglycemic 15 mg/kg	
Antiinflammatory	
Antiischemic	
Antimyocarditis	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antosteoporotic	
Antioxidant	
Antiparkinsonian	
Antiradicular	
Antitumor (Colon)	
Antivasoconstrictive	
Antiwithdrawal	
Anxiolytic	
Apoptotic	
Aromatase-Inhibitor	
Beta-Blocker	
Cardioprotective	
Chemopreventive	
Cytoprotective	
Estrogenic	
Hepatoprotective	
Hypocholesterolemic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Hypoglycemic	
Hypotensive ivn	
MDR-Inhibitor	
Myorelaxant	
NF-kB-Inhibitor	
NO-Genic	
Neuroprotective	
Osteogenic	
Pancreaprotective	
Xanthine-Oxidase-Inhibitor	Mills, Simon and Bone, Kerry. 2000. Phytotherapy. Churchill Livingston, Edinburgh.

PUERARIN	Stem	--	208.0	*
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Activities (49)

ABeta-Inhibitor	
Aldose-Reductase-Inhibitor	
Alpha-Amylase-Inhibitor	Soumyanath, A. Ed. 2006. Traditional Medicines for Modern Times - Antidiabetic Plants. CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Alpha-Glucosidase-Inhibitor	Soumyanath, A. Ed. 2006. Traditional Medicines for Modern Times - Antidiabetic Plants. CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Antiaddictive	
Antidiuretic	
Antiaggregant	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antialzheimeran	
Antiarrhythmic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antiatherosclerotic	
Anticapillary-Fragility	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Anticephalic	
Anticlimacteric	
Antideafness	
Antidementia	
Antidiabetic 15 mg/kg ivn rat	
Antiendometriotic	
Antihangover	
Antihyperglycemic 15 mg/kg	

Antiischemic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antimyocarditis	
Antiosteoporotic	
Antioxidant	
Antiparkinsonian	
Antiradicular	
Antitumor (Colon)	
Antivasoconstrictive	
Antiwithdrawal	
Anxiolytic	
Apoptotic	
Aromatase-Inhibitor	
Beta-Blocker	
Cardioprotective	
Chemopreventive	
Cytoprotective	
Estrogenic	
Hepatoprotective	
Hypocholesterolemic	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Hypoglycemic	
Hypotensive ivn	
MDR-Inhibitor	
Myorelaxant	
NF-kB-Inhibitor	
NO-Genic	
Neuroprotective	
Osteogenic	
Pancreaprotective	
Xanthine-Oxidase-Inhibitor	Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingston, Edinburgh.

PUERARIN	Tissue Culture	--	86.0	*
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Activities (49)

ABeta-Inhibitor	
Aldose-Reductase-Inhibitor	
Alpha-Amylase-Inhibitor	Soumyanath, A. Ed. 2006. <i>Traditional Medicines for Modern Times - Antidiabetic Plants</i> . CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Alpha-Glucosidase-Inhibitor	Soumyanath, A. Ed. 2006. <i>Traditional Medicines for Modern Times - Antidiabetic Plants</i> . CRC Press, Taylor & Francis Group. Boca Raton, FL. 314 pp.
Antiaddictive	
Antidiuretic	
Antiaggregant	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antialzheimeran	
Antiarrhythmic	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Antithrombotic	
Anticapillary-Fragility	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Anticephalic	
Anticlimacteric	
Antideafness	
Antidementia	
Antidiabetic 15 mg/kg ivn rat	
Antiedometriotic	
Antihangover	
Antihyperglycemic 15 mg/kg	
Antiinflammatory	
Antiischemic	
Antimyocarditis	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antiosteoporotic	
Antioxidant	
Antiparkinsonian	
Antiradicular	
Antitumor (Colon)	
Antivasoconstrictive	
Antiwithdrawal	
Anxiolytic	

Aromatase-Inhibitor	
Beta-Blocker	
Cardioprotective	
Chemopreventive	
Cytoprotective	
Estrogenic	
Hepatoprotective	
Hypocholesterolemic	Leung, A. Y. and Foster, S. 1995. Encyclopedia of Common Natural Ingredients 2nd Ed. John Wiley & Sons, New York. 649 pp.
Hypoglycemic	
Hypotensive ivn	
MDR-Inhibitor	
Myorelaxant	
NF-kB-Inhibitor	
NO-Genic	
Neuroprotective	
Osteogenic	
Pancreaprotective	
Xanthine-Oxidase-Inhibitor	Mills, Simon and Bone, Kerry. 2000. <i>Phytotherapy</i> . Churchill Livingston, Edinburgh.

PUERARIN-4'-O-BETA-D-GLUCOSIDE	Root	--	--	*
PUERARIN-7-O-XYLOSIDE	Root	--	--	List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.
PUERARIN-APIOSIDE	Root	--	--	*
PUERARIN-XYLOSIDE	Root	--	--	*
PUERAROL	Root	--	--	*
PUEROSIDE-A	Root	--	--	*
PUEROSIDE-B	Root	--	--	*
QUERCETIN	Root	--	--	*

Activities (176)

11B-HSD-Inhibitor	
5-Lipoxygenase-Inhibitor IC50 (uM)=4	
ATPase-Inhibitor	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Aldehyde-Oxidase-Inhibitor IC70=96=10 uM	
Aldose-Reductase-Inhibitor 100 uM	
Aldose-Reductase-Inhibitor 4 ug/ml	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110.
Aldose-Reductase-Inhibitor IC50=0.84 ug/ml cow	Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation. <i>Chem Pharm Bull</i> 43(8):1385-1387
Aldose-Reductase-Inhibitor IC50=0.344 uM	Mao, X. M., Zhang, J. Q. 1993. Inhibition of Aldose Reductase by Extracts of Chinese Herbal Medicine. <i>Zhongguo Zhongyao Zazhi</i> , 18(10): 623-624.
Allelochemical IC82=1 mM	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.
Allergenic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Analgesic	
AntiCrohn's 400 mg/man/3x/day	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
AntiGTF ID50=120 ug/ml	
AntiHIV	
AntiPMS 500 mg/2x/day/wmn	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiaflatoxin IC50=25 uM	
Antiaflatoxin IC50=7.5 ppm	
Antiaggregant IC50=55 uM	Economic & Medicinal Plant Research, 5: 333.
Antiaggregant 30 uM	
Antiaging	
Antiallergic IC50=14 uM	Jim Duke's personal files.
Antialzheimeran	
Antianaphylactic	Meli, R., Autore, G., Di Carlo, G., Capasso, F. Inhibitory Action of Quercetin on Intestinal Transit in Mice. <i>Phytotherapy Research</i> 4(5): 201, 1990.
Antiangiogenic	
Antiarthritic	
Antiasthmatic IC50=14 uM	

Antibacterial	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Anticarcinomic (Breast) IC50=1.5 uM	Medline (post 1990 searches filed in my computer)
Anticariogenic ID50=120 ug/ml	
Anticataract	
Anticatolic 400 mg/man/3x/day	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Anticomplementary	
Anticystistic 1,000 mg/day/4 weeks	
Antidepressant	
Antidermatitic	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antidiabetic	
Antielastase IC50=0.8 ug/ml	
Antiencephalitic	Economic & Medicinal Plant Research, 5: 199.
Antiescherichic	
Antiestrogenic	
Antifeedant IC52=<1,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology.</i> v. 4, Oryx Press, Phoenix, 1989, 267pp.
Antifibrosarcomic	
Antiflu	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research.</i> Wiss. Verlag, Stuttgart.
Antigastric	Rastite l'nye Resursy, 21: 85.
Antigonadotropic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants.</i> Taylor & Frost, London. 791 pp.
Antihepatotoxic	Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. <i>Planta Medica</i> 56(2): 171-173, 1990.
Antiherpetic 48-150 ug/ml	
Antihistaminic IC50=<10 uM	
Antihydrophobic	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research.</i> Wiss. Verlag, Stuttgart.
Antihypertensive	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs.</i> CRC Press, Boca Raton, FL 388 pp.
Antiinflammatory 20-150 mg/kg	Fitoterapia No.5-1990.
Antileishmanic IC50=64	
Antileukemic IC50=10 uM	Economic & Medicinal Plant Research, 5: 225.
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antileukemic 5.5-60 uM	
Antileukotriene	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antilipoperoxidant IC67=50	
Antimalarial IC50=1-6.4 ug/ml	Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
Antimelanomic	
Antimetastatic	
Antimutagenic ID50=2-5 nM	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antimutagenic ID50=0.62 ug/ml	
Antimyocarditic	Economic & Medicinal Plant Research, 5: 199.
Antinitrosaminic	
Antinociceptive	
Antioxidant IC96=300 ppm	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antioxidant ED50=2.3 uM	Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit in vitro LDL Peroxidation. <i>Phytotherapy Research,</i> 14(2): 93-98.
Antioxidant 4.7 x Vit. E	
Antioxidant IC47=10 uM	
Antipancreatic	Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code.</i> Hyperion, NY.
Antiperiodontal	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiperistaltic	
Antipermeability	
Antiperoxidant	Planta Medica, 57: A110, 1991.
Antipharyngitic	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiplaque	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiplasmodial IC50=13- 64	
Antipodriac	
Antipolio	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine.</i> John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiproliferant 10 nM	
Antiprostanoid	
Antiprostatic	Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code.</i> Hyperion, NY.

Antiradicular IC50=4.6 uM	Planta Medica, 56(6): 695, 1990.
Antispasmodic	
Antistreptococcic ID50=120 ug/ml	
Antithiamin	Phenolic Compounds in Food and Their Effects on Health, 69.
Antithrombic	
Antitrypanosomic IC50=13	
Antitumor 10 uM	
Antitumor (Bladder)	
Antitumor (Breast)	
Antitumor (Colon)	
Antitumor (Lung)	
Antitumor (Ovary)	
Antitumor (Skin) 20 uM	
Antitumor-Promoter	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiulcer	
Antiviral IC50=10 uM	Economic & Medicinal Plant Research, 5: 225.
Antiviral 48-150 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. <i>J. of Natural Products</i> 55(12):1732-1740, 1992.
Apoptotic 20-60 uM	
Bacteristat 10 mg/ml	
Bradycardiac	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
COMT-Inhibitor	
COX-2-Inhibitor <40 uM	
Calmodulin-Antagonist	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	
Capillariprotective	Merck 11th Edition
Carcinogenic 40,000 ppm (diet) mus	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Catabolic	
Copper-Chelator	
Cyclooxygenase-Inhibitor	
Cytochrome-P450-1A2-Inhibitor	
Cytotoxic ED50=70 ug/ml	Matsukawa, Y., et al. The Effect of Quercetin and Other Flavonoids on Cell Cycle Progression and Growth of Human Gastric Cancer Cells. <i>Planta Medica</i> , 56(6): 677, 1990.
Cytotoxic IC82=100 ug/ml	Planta Medica, 57: A113, 1991.
Deiodinase-Inhibitor	Jim Duke's personal files.
Diaphoretic?	Lawrence Review of Natural Products, Dec-90.
Differentiator 5.5 uM	
Estrogenic 10% genistein	
Fungicide	
Glucosyl-Transferase-Inhibitor ID50=120 ug/ml	
HIV-RT-Inhibitor IC50=<1 ug/ml	Nakane, H., Fukushima, M., and Ono*, K. Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives. <i>Journal of Natural Products</i> , 53(5): 1234-1240, 1990.
Hemostat	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Hepatomagenic 5,000 ppm (diet) rat	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Hepatoprotective	
Hypoglycemic 100 mg/kg or/l rat	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Inotropic	
Insulinogenic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Juvabional	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Larvistat 8,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Lipoxygenase-Inhibitor IC11=1.25 mM	Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690.
Lipoxygenase-Inhibitor IC50=0.1-5 uM	
MAO-A-Inhibitor	
MMP-9-Inhibitor 20 uM	
Mast-Cell-Stabilizer	
Metal-Chelator (Copper)	Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit in vitro LDL Peroxidation. <i>Phytotherapy Research</i> , 14(2): 93-98.
Metalloproteinase-Inhibitor IC50=>42 uM	
Mutagenic	
NADH-Oxidase-Inhibitor	
NEP-Inhibitor IC50=>42	

NF-kB-Inhibitor	
NO-Inhibitor IC>50=125 uM	
NO-Inhibitor IC50=20 uM	
NO-Synthase-Inhibitor 5-50 uM	
Neuroprotective 5-25 uM	
Ornithine-Decarboxylase-Inhibitor <10 uM	
P450-Inducer 5 uM	Father Nature's Farmacy: The aggregate of all these three-letter citations.
P450-Inhibitor 50-100 uM	Father Nature's Farmacy: The aggregate of all these three-letter citations.
PGE2-Inhibitor	
PTK-Inhibitor 0.4-24 uM	
Pesticide	
Phospholipase-Inhibitor	
Plasmodicide	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Proliferant	
Prostaglandin-Synthesis-Inhibitor 40 ug/ml	Ibewuike, J. C., Ougambila, F. O., Ogundaini, A. O., Okeke, I. N., Bohlin, L. 1997. Antiinflammatory and Antibacterial Activities of C-methylflavonol from <i>Piliostigma thonningii</i> . <i>Phytotherapy Research</i> , 11(4): 281-284.
Protein-Kinase-C-Inhibitor	Naim, M., Zehavi, U., Nagy, S., and Rouseff, R.L. Hydroxycinnamic Acids as Off-Flavor Precursors in Citrus Fruits and Their Products. Phenolic Compounds in Food and Their Effects on Health, Ch.14.
Quinone-Reductase-Inducer 6 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In'Vitro by Flavonoids. <i>Cancer Lett.</i> , 120 (2): 213-216.
Quinone-Reductase-Inducer 13 uM	
TNF-alpha-Inhibitor IC50=3.11 uM	
Teratologic	
Topoisomerase-I-Inhibitor IC50=12.8 ug/ml	
Topoisomerase-I-Inhibitor IC50=42 uM	
Topoisomerase-II-Inhibitor IC50=1-6.9 ug/ml	
Topoisomerase-II-Inhibitor IC50=23-40 uM	
Tumorigenic 0.1% diet orl rat/yr	Jim Duke's personal files.
Tyrosinase-Inhibitor ID50=70 uM	
Tyrosine-Kinase-Inhibitor	Economic & Medicinal Plant Research, 6: 170.
VEGF-Inhibitor	
Vasodilator	
Xanthine-Oxidase-Inhibitor IC50=>0.4 ug/ml	Chem. & Pharm. Bull. 38: 1772.
Xanthine-Oxidase-Inhibitor IC50=10.6 ug/ml	
Xanthine-Oxidase-Inhibitor 3.1 uM	
cAMP-Phosphodiesterase-Inhibitor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
iNOS-Inhibitor IC50=20 uM	

QUERCETIN	Flower	--	--	*
Activities (176)				
11B-HSD-Inhibitor				
5-Lipoxygenase-Inhibitor IC50 (uM)=4				
ATPase-Inhibitor	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.			
Aldehyde-Oxidase-Inhibitor IC70-96=10 uM				
Aldose-Reductase-Inhibitor 100 uM				
Aldose-Reductase-Inhibitor 4 ug/ml	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110.			
Aldose-Reductase-Inhibitor IC50=0.84 ug/ml cow	Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation.Chem Pharm Bull43(8):1385-1387			
Aldose-Reductase-Inhibitor IC50=0.344 uM	Mao, X. M., Zhang, J. Q. 1993. Inhibition of Aldose Reductase by Extracts of Chinese Herbal Medicine. <i>Zhongguo Zhongyao Zazhi</i> , 18(10): 623-624.			
Allelochemical IC82=1 mM	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.			
Allergenic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.			
Analgesic				
AntiCrohn's 400 mg/man/3x/day	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).			
AntiGTF ID50=120 ug/ml				

AntiPMS 500 mg/2x/day/wmn	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiaflatoxin IC50=25 uM	
Antiaflatoxin IC50=7.5 ppm	
Antiaggregant IC50=55 uM	Economic & Medicinal Plant Research, 5: 333.
Antiaggregant 30 uM	
Antiaging	
Antiallergic IC50=14 uM	Jim Duke's personal files.
Antialzheimeran	
Antianaphylactic	Meli, R., Autore, G., Di Carlo, G., Capasso, F. Inhibitory Action of Quercetin on Intestinal Transit in Mice. Phytotherapy Research 4(5): 201, 1990.
Antiangiogenic	
Antiarthritic	
Antiasthmatic IC50=14 uM	
Antiatherosclerotic	
Antibacterial	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Anticarcinomic (Breast) IC50=1.5 uM	Medline (post 1990 searches filed in my computer)
Anticariogenic ID50=120 ug/ml	
Anticataract	
Anticolitic 400 mg/man/3x/day	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Anticomplementary	
Anticystitic 1,000 mg/day/4 weeks	
Antidepressant	
Antidermatitic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antidiabetic	
Antielastase IC50=0.8 ug/ml	
Antinecephalitic	Economic & Medicinal Plant Research, 5: 199.
Antiescherichic	
Antiestrogenic	
Antifeedant IC52=<1,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Antifibrosarcomic	
Antiflu	Vlietinck, A.J. and Domisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.
Antigastric	Rastitel'nye Resursy, 21: 85.
Antigonadotropic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antihepatotoxic	Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. Planta Medica 56(2): 171-173, 1990.
Antiherpetic 48-150 ug/ml	
Antihistaminic IC50=<10 uM	
Antihydrophobic	Vlietinck, A.J. and Domisse, R.A. eds. 1985. Advances in Medicinal Plant Research. Wiss. Verlag. Stuttgart.
Antihypertensive	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Antiinflammatory 20-150 mg/kg	Fitoterapia No.5-1990.
Antileishmanic IC50=64	
Antileukemic IC50=10 uM	Economic & Medicinal Plant Research, 5: 225.
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.
Antileukemic 5.5-60 uM	
Antileukotriene	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antilipoperoxidant IC67=50	
Antimalarial IC50=1-6.4 ug/ml	Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
Antimelanomic	
Antimetastatic	
Antimutagenic ID50=2-5 nM	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antimutagenic ID50=0.62 ug/ml	
Antimyocarditic	Economic & Medicinal Plant Research, 5: 199.
Antinitrosaminic	
Antinociceptive	
Antioxidant IC96=300 ppm	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antioxidant ED50=2.3 uM	Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from Ballota nigra L. Inhibit in vitro LDL Peroxidation. Phytotherapy Research, 14(2): 93-98.

Antioxidant IC47=10 uM	
Antipancreatic	Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code</i> . Hyperion, NY.
Antiperiodontal	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiperistaltic	
Antipermeability	
Antiperoxidant	<i>Planta Medica</i> , 57: A110, 1991.
Antipharyngitic	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiplaque	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiplasmodial IC50=13-64	
Antipodriac	
Antipolio	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiproliferant 10 nM	
Antiprostanoid	
Antiprostatic	Joseph, J., Nadeau, D. and Underwood, A. 2001. <i>The Color Code</i> . Hyperion, NY.
Antipsoriac	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiradicular IC50=4.6 uM	<i>Planta Medica</i> , 56(6): 695, 1990.
Antispasmodic	
Antistreptococcal ID50=120 ug/ml	
Antithiamin	<i>Phenolic Compounds in Food and Their Effects on Health</i> , 69.
Antithrombic	
Antitypanosomal IC50=13	
Antitumor 10 uM	
Antitumor (Bladder)	
Antitumor (Breast)	
Antitumor (Colon)	
Antitumor (Lung)	
Antitumor (Ovary)	
Antitumor (Skin) 20 uM	
Antitumor-Promoter	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiuclcer	
Antiviral IC50=10 uM	<i>Economic & Medicinal Plant Research</i> , 5: 225.
Antiviral 48-150 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. <i>Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis</i> . <i>J. of Natural Products</i> 55(12):1732-1740, 1992.
Apoptotic 20-60 uM	
Bacteristat 10 mg/ml	
Bradycardiac	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
COMT-Inhibitor	
COX-2-Inhibitor <40 uM	
Calmodulin-Antagonist	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	
Capillariprotective	Merck 11th Edition
Carcinogenic 40,000 ppm (diet) mus	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Catabolic	
Copper-Chelator	
Cyclooxygenase-Inhibitor	
Cytochrome-P450-1A2-Inhibitor	
Cytotoxic ED50=70 ug/ml	Matsukawa, Y., et al. <i>The Effect of Quercetin and Other Flavonoids on Cell Cycle Progression and Growth of Human Gastric Cancer Cells</i> . <i>Planta Medica</i> , 56(6): 677, 1990.
Cytotoxic IC82=100 ug/ml	<i>Planta Medica</i> , 57: A113, 1991.
Deiodinase-Inhibitor	Jim Duke's personal files.
Diaphoretic?	<i>Lawrence Review of Natural Products</i> , Dec-90.
Differentiator 5.5 uM	
Estrogenic 10% genistein	
Fungicide	
Glucosyl-Transferase-Inhibitor ID50=120 ug/ml	
HIV-RT-Inhibitor IC50=<1 ug/ml	Nakane, H., Fukushima, M., and Ono*, K. <i>Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives</i> . <i>Journal of Natural Products</i> , 53(5): 1234-1240, 1990.
Hemostat	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Hepatomagenic 5,000 ppm (diet) rat	<i>Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention</i> . Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Hepatoprotective	
Hypoglycemic 100 mg/kg orl rat	Ivorra, M.D., Paya, M., and Villar, A. 1989. <i>A Review of Natural Products and Plants as Potential Antidiabetic Drugs</i> . <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Inotropic	

Juvabional	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Larvistat 8,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.
Lipoxygenase-Inhibitor IC ₅₀ =1.25 uM	Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690.
Lipoxygenase-Inhibitor IC ₅₀ =0.1-5 uM	
MAO-A-Inhibitor	
MMP-9-Inhibitor 20 uM	
Mast-Cell-Stabilizer	
Metal-Chelator (Copper)	Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit in vitro LDL Peroxidation. <i>Phytotherapy Research</i> , 14(2): 93-98.
Metalloproteinase-Inhibitor IC ₅₀ =>42 uM	
Mutagenic	
NADH-Oxidase-Inhibitor	
NEP-Inhibitor IC ₅₀ =>42 uM	
NF-kB-Inhibitor	
NO-Inhibitor IC>50=125 uM	
NO-Inhibitor IC ₅₀ =20 uM	
NO-Synthase-Inhibitor 5-50 uM	
Neuroprotective 5-25 uM	
Ornithine-Decarboxylase-Inhibitor <10 uM	
P450-Inducer 5 uM	Father Nature's Farmacy: The aggregate of all these three-letter citations.
P450-Inhibitor 50-100 uM	Father Nature's Farmacy: The aggregate of all these three-letter citations.
PGE2-Inhibitor	
PTK-Inhibitor 0.4-24 uM	
Pesticide	
Phospholipase-Inhibitor	
Plasmodicide	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Proliferant	
Prostaglandin-Synthesis-Inhibitor 40 ug/ml	Ibewuike, J. C., Ogungbamila, F. O., Ogundaini, A. O., Okeke, I. N., Bohlin, L. 1997. Antiinflammatory and Antibacterial Activities of C-methylflavonol from <i>Piliostigma thonningii</i> . <i>Phytotherapy Research</i> , 11(4): 281-284.
Protein-Kinase-C-Inhibitor	Naim, M., Zehavi, U., Nagy, S., and Rouseff, R.L. Hydroxycinnamic Acids as Off-Flavor Precursors in Citrus Fruits and Their Products. Phenolic Compounds in Food and Their Effects on Health, Ch.14.
Quinone-Reductase-Inducer 6 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In'Vitro by Flavonoids. <i>Cancer Lett.</i> , 120 (2): 213-216.
Quinone-Reductase-Inducer 13 uM	
TNF-alpha-Inhibitor IC ₅₀ =3.11 uM	
Teratologic	
Topoisomerase-I-Inhibitor IC ₅₀ =12.8 ug/ml	
Topoisomerase-I-Inhibitor IC ₅₀ =42 uM	
Topoisomerase-II-Inhibitor IC ₅₀ =1-6.9 ug/ml	
Topoisomerase-II-Inhibitor IC ₅₀ =23-40 uM	
Tumorigenic 0.1% diet orl rat/yr	Jim Duke's personal files.
Tyrosinase-Inhibitor ID ₅₀ =70 uM	
Tyrosine-Kinase-Inhibitor	Economic & Medicinal Plant Research, 6: 170.
VEGF-Inhibitor	
Vasodilator	
Xanthine-Oxidase-Inhibitor IC ₅₀ =>0.4 ug/ml	Chem. & Pharm. Bull. 38: 1772.
Xanthine-Oxidase-Inhibitor IC ₅₀ =10.6 ug/ml	
Xanthine-Oxidase-Inhibitor 3.1 uM	
cAMP-Phosphodiesterase-Inhibitor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
iNOS-Inhibitor IC ₅₀ =20 uM	

QUERCETIN

Leaf -- --

List, P.H. and Horhammer, L, Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities (176)

11B-HSD-Inhibitor

IC50 (μ M) →	
ATPase-Inhibitor	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Aldehyde-Oxidase-Inhibitor IC70-96=10 μ M	
Aldose-Reductase-Inhibitor 100 μ M	
Aldose-Reductase-Inhibitor 4 ug/ml	Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. <i>Sankyo Kenkyusho Nempo</i> , 43: 99-110.
Aldose-Reductase-Inhibitor IC50=0.84 ug/ml cow	Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation. <i>Chem Pharm Bull</i> 43(8):1385-1387
Aldose-Reductase-Inhibitor IC50=0.344 μ M	Mao, X. M., Zhang, J. Q. 1993. Inhibition of Aldose Reductase by Extracts of Chinese Herbal Medicine. <i>Zhongguo Zhongyao Zazhi</i> , 18(10): 623-624.
Allelochemical IC82=1 mM	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.
Allergenic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Analgesic	
AntiCrohn's 400 mg/man/3x/day	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
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AntiPMS 500 mg/2x/day/wmn	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiaflatoxin IC50=25 μ M	
Antiaflatoxin IC50=7.5 ppm	
Antiaggregant IC50=55 μ M	Economic & Medicinal Plant Research, 5: 333.
Antiaggregant 30 μ M	
Antiaging	
Antiallergic IC50=14 μ M	Jim Duke's personal files.
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Antiarthritic	
Antiasthmatic IC50=14 μ M	
Antiatherosclerotic	
Antibacterial	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
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Anticariogenic ID50=120 ug/ml	
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Anticomplementary	
Anticystitic 1,000 mg/day/4 weeks	
Antidepressant	
Antidermatitic	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antidiabetic	
Antielastase IC50=0.8 ug/ml	
Antiencephalitic	Economic & Medicinal Plant Research, 5: 199.
Antiescherichic	
Antiestrogenic	
Antifeedant IC52=<1,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.
Antifibrosarcomic	
Antiflu	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart.
Antigastric	Rastitel'nye Resursy, 21: 85.
Antigonadotropic	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Antihepatotoxic	Joyeux, M., Rolland, A., Fleurentin, J., Mortier, F., and Dorfman, P. 1989. Tert-Butyl Hydroperoxide-Induced Injury in Isolated Rat Hepatocytes: A Model for Studying Anti-Hepatotoxic Crude Drugs. <i>Planta Medica</i> 56(2): 171-173, 1990.
Antiherpetic 48-150 ug/ml	
Antihistaminic IC50=<10 μ M	
Antihydrophobic	Vlietinck, A.J. and Domisse, R.A. eds. 1985. <i>Advances in Medicinal Plant Research</i> . Wiss. Verlag. Stuttgart.
Antihypertensive	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antiinflammatory 20-150 mg/kg	Fitoterapia No.5-1990.
Antileishmanic IC50=64	
Antileukemic IC50=10 μ M	Economic & Medicinal Plant Research, 5: 225.
Antileukemic IC50=>10 ug/ml	Life Sciences 55: 1061.

Antileukotriene	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antilipoperoxidant IC67=50	
Antimalarial IC50=1-6.4 ug/ml	Medicinal and Poisonous Plants of the Tropics. Leeuwenberg, A.J.M., ed. Pudoc, Wageningen. 1987.
Antimelanomic	
Antimetastatic	
Antimutagenic ID50=2-5 nM	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antimutagenic ID50=0.62 ug/ml	
Antimyocarditic	Economic & Medicinal Plant Research, 5: 199.
Antinitrosaminic	
Antinociceptive	
Antioxidant IC96=300 ppm	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Antioxidant ED50=2.3 uM	Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit <i>in vitro</i> LDL Peroxidation. Phytotherapy Research, 14(2): 93-98.
Antioxidant 4.7 x Vit. E	
Antioxidant IC47=10 uM	
Antipancreatic	Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY.
Antiperiodontal	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiperistaltic	
Antipermeability	
Antiperoxidant	Planta Medica, 57: A110, 1991.
Antipharyngitic	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiplaque	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiplasmodial IC50=13- 64	
Antipodriac	
Antipolio	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiproliferant 10 nM	
Antiprostanoid	
Antiprostatic	Joseph, J., Nadeau, D. and Underwood, A. 2001. The Color Code. Hyperion, NY.
Antipsoriac	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiradicular IC50=4.6 uM	Planta Medica, 56(6): 695, 1990.
Antispasmodic	
Antistreptococcal ID50=120 ug/ml	
Antithiamin	Phenolic Compounds in Food and Their Effects on Health, 69.
Antithrombic	
Antitrypanosomal IC50=13	
Antitumor 10 uM	
Antitumor (Bladder)	
Antitumor (Breast)	
Antitumor (Colon)	
Antitumor (Lung)	
Antitumor (Ovary)	
Antitumor (Skin) 20 uM	
Antitumor-Promoter	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Antiulcer	
Antiviral IC50=10 uM	Economic & Medicinal Plant Research, 5: 225.
Antiviral 48-150 ug/ml	Amoros, M., Simoes, C.M.O., Girre, L., et al. Synergistic Effect Of Flavones And Flavonols Against Herpes Simplex Virus Type 1 In Cell Culture. Comparison With The Antiviral Activity Of Propolis. J. of Natural Products 55(12):1732-1740, 1992.
Apoptotic 20-60 uM	
Bacteristat 10 mg/ml	
Bradycardiac	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
COMT-Inhibitor	
COX-2-Inhibitor <40 uM	
Calmodulin-Antagonist	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Candidicide	
Capillariprotective	Merck 11th Edition
Carcinogenic 40,000 ppm (diet) mus	Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.
Catabolic	
Copper-Chelator	
Cyclooxygenase-Inhibitor	
Cytochrome-P450-1A2- Inhibitor	
Cytotoxic ED50=70 uM/ml	Matsuoka, Y. et al The Effect of Quercetin and Other Flavonoids on Cell Cycle Progression and Growth of Human Gastric Cancer Cells. Planta

Cytotoxic IC82=100 ug/ml	Planta Medica, 57: A113, 1991.
Deiodinase-Inhibitor	Jim Duke's personal files.
Diaphoretic?	Lawrence Review of Natural Products, Dec-90.
Differentiator 5.5 uM	
Estrogenic 10% genistein	
Fungicide	
Glucosyl-Transferase-Inhibitor ID50=120 ug/ml	
HIV-RT-Inhibitor IC50=<1 ug/ml	Nakane, H., Fukushima, M., and Ono*, K. Differential Inhibition Of Reverse Transcriptase And Various DNA Polymerases By Digallic Acid And Its Derivatives. <i>Journal of Natural Products</i> , 53(5): 1234-1240, 1990.
Hemostat	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Hepatomagenic 5,000 ppm (diet) rat	Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.
Hepatoprotective	
Hypoglycemic 100 mg/kg orl rat	Ivorra, M.D., Paya, M., and Villar, A. 1989. A Review of Natural Products and Plants as Potential Antidiabetic Drugs. <i>Journal of Ethnopharmacology</i> , 27: 243-275, 1989.
Inotropic	
Insulinogenic	Pizzorno, J.E. and Murray, M.T. 1985. <i>A Textbook of Natural Medicine</i> . John Bastyr College Publications, Seattle, Washington (Looseleaf).
Juvabional	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.
Larvistat 8,000 ppm diet	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.
Lipoxygenase-Inhibitor IC11=>1.25 mM	Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690.
Lipoxygenase-Inhibitor IC50=0.1-5 uM	
MAO-A-Inhibitor	
MMP-9-Inhibitor 20 uM	
Mast-Cell-Stabilizer	
Metal-Chelator (Copper)	Seidel, V., Verholle, M., Malard, Y., Tillequin, F., Fruchart, J-C., Duriez, P., Bailleul, F., Teissier, E. 2000. Phenylpropanoids from <i>Ballota nigra</i> L. Inhibit in vitro LDL Peroxidation. <i>Phytotherapy Research</i> , 14(2): 93-98.
Metalloproteinase-Inhibitor IC50=>42 uM	
Mutagenic	
NADH-Oxidase-Inhibitor	
NEP-Inhibitor IC50=>42 uM	
NF-kB-Inhibitor	
NO-Inhibitor IC>50=125 uM	
NO-Inhibitor IC50=20 uM	
NO-Synthase-Inhibitor 5-50 uM	
Neuroprotective 5-25 uM	
Ornithine-Decarboxylase-Inhibitor <10 uM	
P450-Inducer 5 uM	Father Nature's Farmacy: The aggregate of all these three-letter citations.
P450-Inhibitor 50-100 uM	Father Nature's Farmacy: The aggregate of all these three-letter citations.
PGE2-Inhibitor	
PTK-Inhibitor 0.4-24 uM	
Pesticide	
Phospholipase-Inhibitor	
Plasmodicide	Neuwinger, H. D. 1996. <i>African Ethnobotany - Poisons and Drugs</i> . Chapman & Hall, New York. 941 pp.
Proliferant	
Prostaglandin-Synthesis-Inhibitor 40 ug/ml	Ibewuike, J. C., Ogungbamila, F. O., Ogundaini, A. O., Okeke, I. N., Bohlin, L. 1997. Antiinflammatory and Antibacterial Activities of C-methylflavonol from <i>Piliostigma thonningii</i> . <i>Phytotherapy Research</i> , 11(4): 281-284.
Protein-Kinase-C-Inhibitor	Naim, M., Zehavi, U., Nagy, S., and Rouseff, R.L. Hydroxycinnamic Acids as Off-Flavor Precursors in Citrus Fruits and Their Products. <i>Phenolic Compounds in Food and Their Effects on Health</i> , Ch.14.
Quinone-Reductase-Inducer 6 uM	Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. <i>Cancer Lett.</i> , 120 (2): 213-216.
Quinone-Reductase-Inducer 13 uM	
TNF-alpha-Inhibitor IC50=5.11 uM	
Teratologic	
Topoisomerase-I-Inhibitor IC50=12.8 ug/ml	
Topoisomerase-I-Inhibitor IC50=42 uM	
Topoisomerase-II-Inhibitor IC50=1-6.9 ug/ml	
Topoisomerase-II-Inhibitor IC50=23-40 uM	
Tumorigenic 0.1% diet orl rat/yr	Jim Duke's personal files.
Tyrosinase-Inhibitor ID50=>70 uM	
Tyrosine-Kinase-Inhibitor	Economic & Medicinal Plant Research, 6: 170.

VasodilatorXanthine-Oxidase-Inhibitor IC₅₀=>0.4 µM

Chem. & Pharm. Bull. 38: 1772.

Xanthine-Oxidase-Inhibitor IC₅₀=10.6 µM

Xanthine-Oxidase-Inhibitor 3.1 µM

cAMP-Phosphodiesterase-Inhibitor

Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

iNOS-Inhibitor IC₅₀=20 µM

RIBOFLAVIN	Shoot	--	8.0	-1.02	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
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Activities (15)

AntiLyme 50 mg/day

Antiarabiflavinotic 2-10 mg/day orl

Martindale's 28th

Anticarpal-Tunnel 50 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Anticataract 15 mg/day

Werbach, M. 1993. Healing with Food. Harper Collins, New York, 443 pp.

Anticephalagic

Anticervicaldysplastic 1.6-10 mg/day

Anticheilitic

Antidecubitic

Antiglossitic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Antikeratitic

Antimigraine

Antioxidant

Antipellagric

Antiphotophobic

Davies, S., and Stewart, A. 1990. Nutritional Medicine. Avon Books, New York. 509pp.

Cancer-Preventive

Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

ROBININ	Leaf	500.0	18700.0	*
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Activities (10)

Antiazotemic

Antibacterial

Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Anticancer

Antimutagenic ID₅₀=50-100 nM Maga, J.A. Contribution of Phenolic Compounds to Smoke Flavor. Phenolic Compounds in Food and Their Effects on Health, Ch.13.

Antioxidant 1/5 quercetin

Antiradicular 1/5 quercetin

Antitumor-Promoter

Cancer-Preventive Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.

Diuretic

Pesticide

RUTIN	Leaf	--	--	*
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Activities (87)

5-HT-Inhibitor

Aldehyde-Oxidase-Inhibitor IC₂₇₋₅₂=10 µM

Aldose-Reductase-Inhibitor 100 µM

Aldose-Reductase-Inhibitor 4 µg/ml

Ichikawa, K., et al. 1991. Isolation and Structure Determination of Aldose Reductase Inhibitors from Traditional Thai Medicine, and Syntheses of Their Derivatives. Sankyo Kenkyusho Nempo, 43: 99-110.

Allelochemic

AntiCVI 270 mg/man/day

Antiaggregant ED₅₀=33 nmol/kg iv

Antiallergic

Antipoplectic

Antiatherogenic

Antiatherosclerotic

Antibacterial Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

Anticancer

Anticapillary-Fragility 20-100 mg orl man Merck 7th Ed.

Anticataract

Anticonvulsant	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antidementia	Bruneton, J. 1999. <i>Pharmacognosy, Phytochemistry, Medicinal Plants</i> . 2nd Ed. Lavoisier Publishing, Paris. 1119 pp.
Antidermatitic	Bisset, N.G., ed. 1994. <i>Herbal Drugs and Phytopharmaceuticals</i> . CRC Press. Boca Raton, FL. 566 pp.
Antidiabetic	Jin, G-Z., Yamagata, Y., and Tomita, K.-i. 1989. Structure of Rutin Pentamethanol. <i>Chem. Pharm. Bull.</i> 38(2): 297-300, 1990.
Antiedemic 270 mg/day orl man	
Antierythemic	
Antifeedant	
Antiglaucomic 60 mg/day	Werbach, M. 1993. <i>Healing with Food</i> . Harper Collins, New York, 443 pp.
Antihematuric	
Antihemorrhoidal	
Antihepatotoxic	Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp.
Antiherpetic	Economic & Medicinal Plant Research, 5: 198.
Antihistaminic	
Antihypertensive	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Antiinflammatory 20 mg/kg	
Antimalarial IC50=>100 ug/ml	Khalid, S.A., Farouk, A., Geary**, T.G., and Jensen, J.B. 1985. Potential Antimalarial Candidates From African Plants: An In Vitro Approach Using <i>Plasmodium falciparum</i> *. <i>Journal of Ethnopharmacology</i> , 15: 201-209, 1986.
Antimelanomic	
Antimetastatic	
Antimutagenic ID50=2-5 nM	
Antinephritic	
Antinociceptive	
Antioxidant IC28=30 ppm	
Antioxidant IC50=120 uM	
Antioxidant IC54=10 uM	
Antiperoxidant IC50=10- 20 uM	
Antiplatelet	
Antiproliferant 50-75 uM/l	
Antiprotozoal	
Antipurpuric	
Antiradicular 9 x quercetin	
Antispasmodic	
Antisunburn	
Antithrombogenic EC50=500 nM	
Antithyroid IC50=68 uM	
Antitrypanosomal 100 mg/kg	Planta Medica, 57: A44, 1991.
Antitumor	
Antitumor-Promoter	
Antiulcer	
Antivaricose	
Antiviral	
Apoptotic 75 uM/l	
Cancer-Preventive	Stitt, P. A. <i>Why George Should Eat Broccoli</i> . Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Capillaroprotective	Merck 11th Edition
Catabolic	
Chemopreventive	
Cytoprotective IC50=3 uM	
Estrogenic?	Economic & Medicinal Plant Research, 6: 189.
Hemostat	
Hepatomagenic 20,000 ppm (diet) rat	Phenolic Compounds in Food and Their Effects on Health. <i>Antioxidants & Cancer Prevention</i> . Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507. ACS, Washington 402 pp.
Hepatoprotective 20 mg/kg rat	
Hypocholesterolemic	Huang, K. C. 1993. <i>The Pharmacology of Chinese Herbs</i> . CRC Press, Boca Raton, FL 388 pp.
Hypotensive	Leung, A. Y. and Foster, S. 1995. <i>Encyclopedia of Common Natural Ingredients</i> 2nd Ed. John Wiley & Sons, New York. 649 pp.
Immunomodulator	
Insecticide	Keeler, R.F. and Tu, A.T. eds. 1991. <i>Toxicology of Plant and Fungal Compounds. (Handbook of Natural Toxins Vol. 6)</i> Marcel Dekker, Inc. NY. 665 pp.
Insectiphile	Jeffery B. Harborne and H. Baxter, eds. 1983. <i>Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants</i> . Taylor & Frost, London. 791 pp.
Juvabional	Jacobson, M., <i>Glossary of Plant-Derived Insect Deterrents</i> , CRC Press, Inc., Boca Raton, FL, 213 p, 1990.
Larvistat IC95=4,000- 8,000 ppm diet	Lydon, J. & Duke, S. <i>The potential of pesticides from plants</i> , pp. 1-41 in Craker, L. & Simon, J., eds, <i>Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology</i> , v. 4, Oryx Press, Phoenix, 1989, 267pp.
Lipoxygenase-Inhibitor IC75=2.5 mM	Oszmianski, J. and Lee, C.Y. 1990. Inhibitory Effect of Phenolics on Carotene Bleaching in Vegetables. <i>J. Agric. Food Chem.</i> 38: 688-690.
Mutagenic	Economic & Medicinal Plant Research, 6: 189.

Myorelaxant	Economic & Medicinal Plant Research, 6: 189.
Oviposition-Stimulant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
PAF-Inhibitor	
Pesticide	
Protisticide	
Radioprotective	
Sunscreen	
Topoisomerase-II-Inhibitor IC50=1 ug/ml	Bernard, F. X., Sable, S., Cameron, B., Provost, J., Desnottes, J. F., Crouzet, J., Blanche, F. 1997. Glycosylated Flavones as Selective Inhibitors of Topoisomerase IV. Antimicrobial Agents & Chemotherapy, 41: 992-998.
Vasodilator	
Vasopressor	
cAMP-Phosphodiesterase-Inhibitor	Pizzorno, J.E. and Murray, M.T. 1985. A Textbook of Natural Medicine. John Bastyr College Publications, Seattle, Washington (Looseleaf).

SCOPARONE	Root	--	--	*
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Activities (22)

Aldose-Reductase-Inhibitor 10 ug/ml cow	Okada,Y,et al.1995.Search for Naturally Occurring Substances to Prevent the Complications of Diabetes.II.Inhibitory Effect of Coumarin and Flavonoid Derivatives on Bovine Lens Aldose Reductase and Rabbit Platelet Aggregation.Chem Pharm Bull43(8):1385-1387
Analgesic	
Antiatherogenic	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
Antihepatotoxic	
Antiimplantation	Bisset, N.G., ed. 1994. Herbal Drugs and Phytopharmaceuticals. CRC Press. Boca Raton, FL. 566 pp.
Antiinflammatory	
Antiischemic	
Antiproliferant	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
Antiradicular	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
Antiretinopathic	
Antispasmodic	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
CNS-Depressant 40-80 mg/kg ipr	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Cardiac	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Cholagogue	Wichtl, M. 1984. Teedrogen. Ein Handbuch fur Apotheker und Arzte. Wissenschaftliche Verlagsgesellschaft. mbH Stuttgart. 393 pp.
Choleretic	
Hepatoprotective	Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.
Hypocholesterolemic	Wright,C.W.(Ed)2002.Medicinal&Aromatic Plants-Industrial Profiles.Artemisia.344pp.Maffei,M.(Ed)2002.Vetiveria.The Genus Vetiveria.Taylor&Francis.NY,NY.191pp.Southwell,I.,Lowe,R.(Eds)1999.Tea Tree.The Genus Melaleuca.Harwood Acad.Pub.Amsterdam,Netherlands.
Hypotensive 5-20 mg/kg ivn	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Immunosuppressant 10-30 uM	
Myorelaxant	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Tranquilizer	Neuwinger, H. D. 1996. African Ethnobotany - Poisons and Drugs. Chapman & Hall, New York. 941 pp.
Vasodilator	

SHEKANIN	Flower	--	--	*
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Activities (3)

Antibacterial	
Diuretic	
Pesticide	

SILICA	Shoot	15000.0	52000.0	0.19	ANON. 1948-1976. The Wealth of India raw materials. Publications and Information Directorate, CSIR, New Delhi. 11 volumes.
SISSITORIN	Flower	--	--	*	
SOPHORADIOL	Root	--	--	*	
SOYASAPONENOL-A	Root	--	--	*	
SOYASAPONENOL-B	Root	--	--	*	
SOYASAPONIN-A-3	Root	--	--	*	
SOYASAPONIN-I	Root	--	1.5	-0.77	*
SOYASAPONIN-SA-3	Root	--	0.09		*
STARCH	Root	130000.0	400000.0	0.35	*

Absorbent	Martindale's 29th
Antidote (Iodine)	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Antinesidioblastosic	Martindale's 29th
Emollient	Martindale's 29th
Poultice	Martindale's 29th

STEARIC-ACID Stem -- -- *

Activities (8)

5-Alpha-Reductase-Inhibitor	
Cosmetic	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
FLavor FEMA 2-4,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Hypocholesterolemic	Spiller, G. A. 1996 (Spiller, G. A. Ed. 1996. CRC Handbook of Lipids in Human Nutrition. CRC Press. Boca Raton, FL. 233 pp.)
Lubricant	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.
Perfumery	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Propecic	
Suppository	Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

STIGMASTEROL Stem -- -- *

Activities (12)

Antihepatotoxic	
Antiinflammatory	Lawrence Review of Natural Products, 1995
Antinociceptive	
Antiophidic 2.3 mg ipr mus	Economic & Medicinal Plant Research, 5: 363.
Antioxidant IC33=10 uM	
Antiviral	Abid Ali Khan, M.M., Jain, D.C., Bhakuni, R.S., Zaim, M., and Thakur, R.S. 1991. Occurrence of some antiviral sterols in <i>Artemisia annua</i> . <i>Plant Science</i> , 75: 161-165, 1991.
Artemicide LC50=110 ppm	Jung, J.H., Pummangura, S., Chaichantipyuth, c., Patarapanich, C., and McLaughlin, J.L. 1989. Bioactive Constituents of <i>Melodorum fruticosum</i> . <i>Phytochemistry</i> . 29(5): 1667-1670. 1990.
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Estrogenic	
Hypocholesterolemic	Nigg, H.N. and Seigler, D.S., eds. 1992. <i>Phytochemical Resources for Medicine and Agriculture</i> . Plenum Press, New York. 445 pp.
Ovulant	
Sedative	

STIZOLAMINE Seed -- 2.1 *

SUCCINIC-ACID Root -- -- *

Activities (7)

Additive FEMA 200-2,000	Aloe Research Council - Duke writeup of non-peer reviewd book by Coats and draft by Henry
Antifeedant	
Bruchiphobe	Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 21
Cancer-Preventive	Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.
Dye	Merck 11th Edition
Perfumery	Merck 11th Edition
Pesticide	

TECTORDIN Plant -- -- List, P.H. and Horhammer, L., Hager's Handbuch der Pharmazeutischen Praxis, Vols. 2-6, Springer-Verlag, Berlin, 1969-1979.

Activities (1)

Antiinflammatory

TECTORIGENIN Flower -- 70.0 *

Activities (5)

Antiinflammatory
Diuretic
Fungicide ED₅₀=<50-100
Pesticide
Phytoalexin Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.

TECTORIGENIN-7-O-GLUCOSIDE	Flower	--	--	*
TRANS-4-(BUT-CIS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE	Leaf Essent. Oil	--	230.0	*
TRANS-4-(BUT-TRANS-2-ENYLIDENE)-3,5,5-TRIMETHYLCYCLOHEX-2-EN-1-ONE	Leaf Essent. Oil	--	1000.0	*
TUBEROSIN	Stem	--	--	*
Activities (5)				
Antibacterial 250 u/ml				Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Antistaphylococcic				
Antitubercular 125 u/ml				Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Fungicide IC55-97=100uM				
Pesticide				
TUBEROSIN	Leaf Diffusate	--	106.0	*
Activities (5)				
Antibacterial 250 u/ml				Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Antistaphylococcic				
Antitubercular 125 u/ml				Wagner & Wolff, eds. 1977. New Natural Products (RS164. I56. 176)
Fungicide IC55-97=100uM				
Pesticide				
WATER	Root	--	686000.0 -0.54	CRC Handbook of Medicinal Herbs and/or CRC Handbook of Proximate Analyses
WIGHEONE	Leaf Diffusate	--	--	*
Activities (2)				
Fungicide	Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp.			
Pesticide				